FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2004 LAND CRUISER.

Applicable models: UZJ100 Series

For service specifications and repair procedures of the above models other than those listed in this manual, refer to the following manuals;

Manual Name	Pub. No.
▲2004 LAND CRUISER Repair Manual	
Volume 1	RM1071U1
Volume 2	RM1071U2
▲2004 TOYOTA New Car Features	NCF257U

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

TOYOTA MOTOR CORPORATION

NOTICE

When handling supplemental restraint system components (removal, installation or inspection, etc.), always follow the direction given in the repair manuals listed above to prevent accidents and supplemental restraint system malfunction.

2004 LAND CRUISER ELECTRICAL WIRING DIAGRAM

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A INTRODUCTION

This manual consists of the following 13 sections:

No.	Section	Description
	INDEX	Index of the contents of this manual.
A	INTRODUCTION	Brief explanation of each section.
В	HOW TO USE THIS MANUAL	Instructions on how to use this manual.
С	TROUBLE- SHOOTING	Describes the basic inspection procedures for electrical circuits.
D	ABBREVIATIONS	Defines the abbreviations used in this manual.
Е	GLOSSARY OF TERMS AND SYMBOLS	Defines the symbols and functions of major parts.
F	RELAY LOCATIONS	Shows position of the Electronic Control Unit, Relays, Relay Block, etc. This section is closely related to the system circuit.
G	ELECTRICAL WIRING ROUTING	Describes position of Parts Connectors, Splice points, Ground points, etc. This section is closely related to the system circuit.
	INDEX	Index of the system circuits.
Н	SYSTEM CIRCUITS	Electrical circuits of each system are shown from the power supply through ground points. Wiring connections and their positions are shown and classified by code according to the connection method. (Refer to the section, "How to use this manual"). The "System Outline" and "Service Hints" useful for troubleshooting are also contained in this section.
I	GROUND POINT	Shows ground positions of all parts described in this manual.
J	POWER SOURCE (Current Flow Chart)	Describes power distribution from the power supply to various electrical loads.
К	CONNECTOR LIST	Describes the form of the connectors for the parts appeared in this book. This section is closely related to the system circuit.
L	PART NUMBER OF CONNECTORS	Indicates the part number of the connectors used in this manual.
М	OVERALL ELECTRICAL WIRING DIAGRAM	Provides circuit diagrams showing the circuit connections.

This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

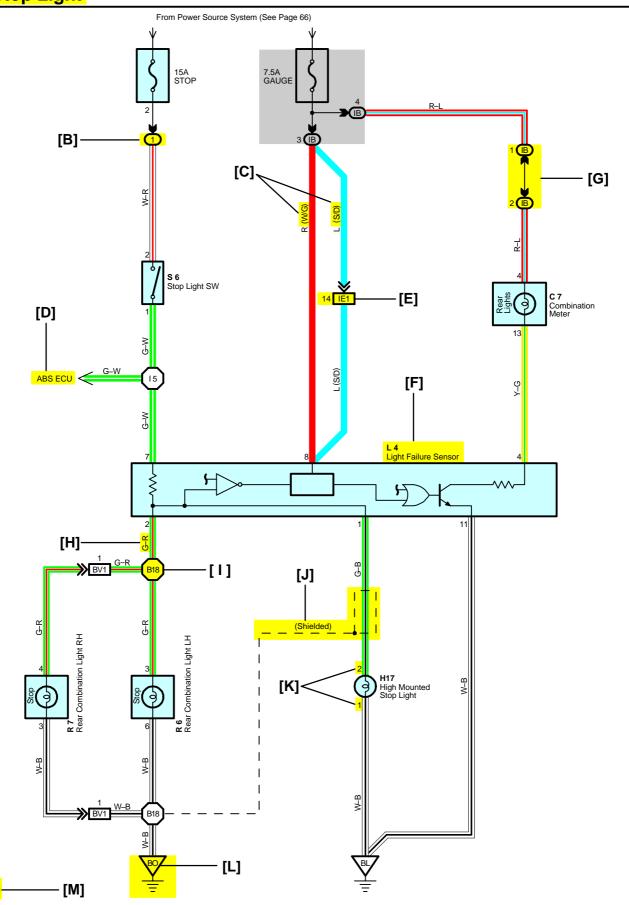
The actual wiring of each system circuit is shown from the point where the power source is received from the battery as far as each ground point. (All circuit diagrams are shown with the switches in the OFF position.)

When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand the circuit operation.

When the circuit operation is understood, begin troubleshooting of the problem circuit to isolate the cause. Use Relay Location and Electrical Wiring Routing sections to find each part, junction block and wiring harness connectors, wiring harness and wiring harness connectors, splice points, and ground points of each system circuit. Internal wiring for each junction block is also provided for better understanding of connection within a junction block.

Wiring related to each system is indicated in each system circuit by arrows (from___, to___). When overall connections are required, see the Overall Electrical Wiring Diagram at the end of this manual.

[A] | | | Stop Light * The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



[A] : System Title

[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

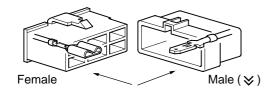
Example: 1 Indicates Relay Block No.1

[C] : () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[D] : Indicates related system.

[E] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (\bowtie).

Outside numerals are pin numbers.



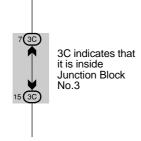
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

When more than one code has the first and second letters in common, followed by numbers (e.g, IH1, IH2), this indicates the same type of wiring harness and wiring harness connector.

[F] : Represents a part (all parts are shown in sky blue). The code is the same as the code used in parts position.

[G] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.





[H]: Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black W = White BR = Brown
L = Blue V = Violet SB = Sky Blue
R = Red G = Green LG = Light Green
P = Pink Y = Yellow GR = Gray

O = Orange

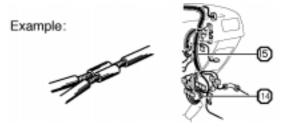
The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L - Y

L - Y

(Blue) (Yellow)

[I] : Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).



The Location of splice Point I 5 is indicated by the shaded section.

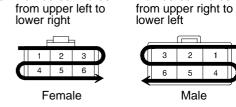
[J] : Indicates a shielded cable.



[K] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

male connectors.

Example: Numbered in order Numbered in order



[L] : Indicates a ground point.

The first letter of the code for each ground point(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

[M]: Page No.

B HOW TO USE THIS MANUAL

[N]

System Outline

Current is applied at all times through the STOP fuse to TERMINAL 2 of the stop light SW.

When the ignition SW is turned on, current flows from the GAUGE fuse to TERMINAL 8 of the light failure sensor, and also flows through the rear lights warning light to TERMINAL 4 of the light failure sensor.

Stop Light Disconnection Warning

When the ignition SW is turned on and the brake pedal is pressed (Stop light SW on), if the stop light circuit is open, the current flowing from TERMINAL 7 of the light failure sensor to TERMINALS 1, 2 changes, so the light failure sensor detects the disconnection and the warning circuit of the light failure sensor is activated.

As a result, the current flows from TERMINAL 4 of the light failure sensor to TERMINAL 11 to GROUND and turns the rear lights warning light on. By pressing the brake pedal, the current flowing to TERMINAL 8 of the light failure sensor keeps the warning circuit on and holds the warning light on until the ignition SW is turned off.

[0]

Service Hints

S6 Stop Light SW

2-1 : Closed with the brake pedal depressed

L4 Light Failure Sensor

1, 2, 7-Ground: Approx. 12 volts with the stop light SW on

4, 8-Ground: Approx. 12 volts with the ignition SW at ON position

11-Ground: Always continuity

[P]

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C7	34	L4	36	R7	37
H17	36	R6	37	S6	35

[Q]

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	18	R/B No.1 (Instrument Panel Brace LH)

[R]

: Junction Block and Wire Harness Connector

Code	See Page	See Page Junction Block and Wire Harness (Connector Location)		
IB 20 Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)				
3C	22	Instrument Panel Wire and J/B No.3 (Instrument Panel Brace LH)		

[S]

: Connector Joining Wire Harness and Wire Harness

Code	Code See Page Joining Wire Harness and Wire Harness (Connector Location)		
IE1 42 Floor Wire and Instrument Panel Wire (Left Kick Panel)			
BV1	1 50 Luggage Room Wire and Floor Wire (Luggage Room Left)		

[T]



Code	See Page	Ground Points Location
BL	50	Under the Left Center Pillar
ВО	50	Back Panel Center

[U]



Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
15	44	Cowl Wire	B18	50	Luggage Room Wire

[N]: Explains the system outline.

[O]: Indicates values or explains the function for reference during troubleshooting.

[P]: Indicates the reference page showing the position on the vehicle of the parts in the system circuit.

Example: Part "L4" (Light Failure Sensor) is on page 36 of the manual.

* The letter in the code is from the first letter of the part, and the number indicates its order in parts starting with that letter.

Example : L 4
Parts is 4th in order
Light Failure Sensor

[Q]: Indicates the reference page showing the position on the vehicle of Relay Block Connectors in the system circuit.

Example: Connector "1" is described on page 18 of this manual and is installed on the left side of the instrument panel.

[R]: Indicates the reference page showing the position on the vehicle of J/B and Wire Harness in the system circuit.

Example: Connector "3C" connects the Instrument Panel Wire and J/B No.3. It is described on page 22 of this manual, and is installed on the instrument panel left side.

[S]: Indicates the reference page describing the wiring harness and wiring harness connector (the female wiring harness is shown first, followed by the male wiring harness).

Example: Connector "IE1" connects the floor wire (female) and Instrument panel wire (male). It is described on page 42 of this manual, and is installed on the left side kick panel.

[T]: Indicates the reference page showing the position of the ground points on the vehicle.

Example: Ground point "BO" is described on page 50 of this manual and is installed on the back panel center.

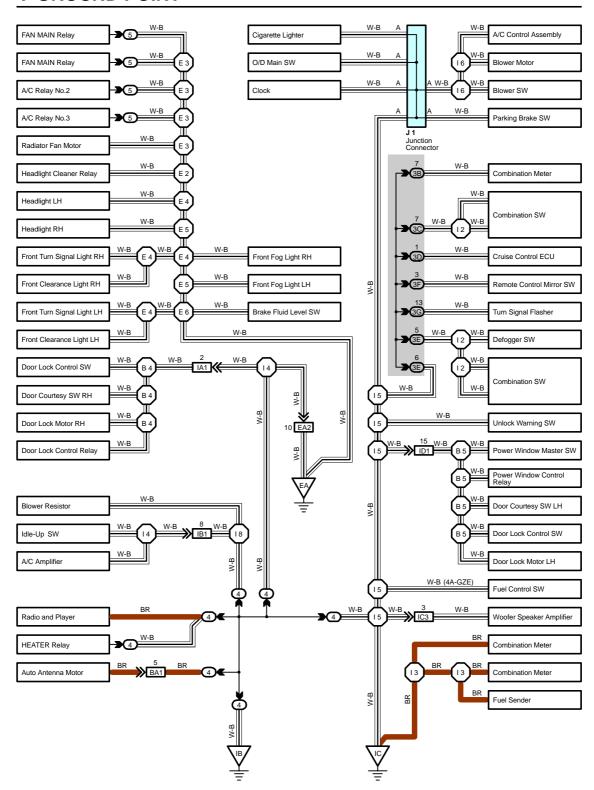
[U]: Indicates the reference page showing the position of the splice points on the vehicle.

Example: Splice point "I5" is on the Cowl Wire Harness and is described on page 44 of this manual.

B HOW TO USE THIS MANUAL

The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points () and o shown below) can also be checked this way.

I GROUND POINT

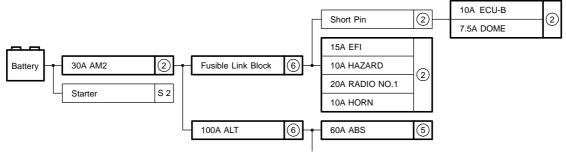


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

The "Current Flow Chart" section, describes which parts each power source (fuses, fusible links, and circuit breakers) transmits current to. In the Power Source circuit diagram, the conditions when battery power is supplied to each system are explained. Since all System Circuit diagrams start from the power source, the power source system must be fully understood.

J POWER SOURCE (Current Flow Chart)

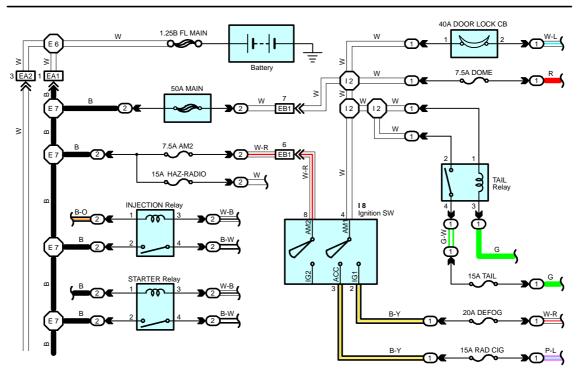
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.



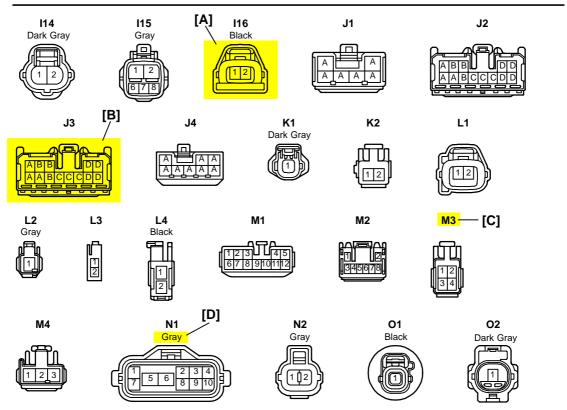
Engine Room R/B (See Page 20)

	Fuse	System	Page
		ABS	194
		ABS and Traction Control	187
20A	STOP	Cruise Control	180
		Electronically Controlled Transmission	166
		Multiplex Communication System	210
		Cigarette Lighter	214
		Combination Meter	230
		Headlight	112
10A	DOME	Interior Light	122
		Key Reminder and Seat Belt Warning	
		Light Auto Turn Off	
		# Deterrent and Door!	

Power Source



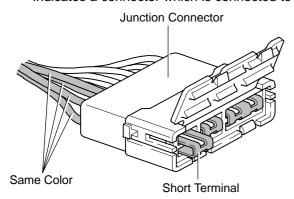
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



[A]: Indicates connector to be connected to a part. (The numeral indicates the pin No.)

[B]: Junction Connector

Indicates a connector which is connected to a short terminal.



Junction connector in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.)

Wire harness sharing the same short terminal grouping have the same color.

[C]: Parts Code

The first letter of the code is taken from the first letter of part, and the numbers indicates its order in parts which start with the same letter.

[D]: Connector Color

Connectors not indicated are milky white in color.

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070	D 4	Diode (Courtesy)	90980-11608
A 2	A/C Condenser Fan Motor	90980-11237	D 5	Diode (Interior Light)	90980-10962
A 3	A/C Condenser Fan Relay	90980-10940	D 6	Diode (Moon Roof)	90980-11608
A 4	A/C Condenser Fan Resistor	90980-10928	D 7	Door Lock Control Relay	90980-10848
A 5	A/C Magnetic Clutch	90980-11271	D 8	Door Lock Control SW LH	90980-11148
A 6	A/T Oil Temp. Sensor	90980-11413	D 9	Door Lock Control SW RH	90960-11146
[A]	ABS Actual [B]	909i [C] 151	D10	Door Courtesy SW LH	90980-11097
A 8	ABS Actuator	90980-11009	D11	Door Courtesy SW RH	90900-11097
A 9	ABS Speed Sensor Front LH	90980-10941	D12	Door Courtesy SW Front LH	
A10	ABS Speed Sensor Front RH	90980-11002	D13	Door Courtesy SW Front RH	90980-11156
A11	Airbag Sensor Front LH	90980-11856	D14	Door Courtesy SW Rear LH	90900-11130
A12	Airbag Sensor Front RH	90960-11656	D15	Door Courtesy SW Rear RH	
A13_	Airle	90980-11194	D16	Dank and Unlock SW LH	90980-11170
•		90980-110	•	BH	30300-11170

[A]: Part Code[B]: Part Name[C]: Part Number

Toyota Part Number are indicated.

Not all of the above part numbers of the connector are established for the supply.

ABBREVIATIONS

The following abbreviations are used in this manual.

A/C = Air Conditioning

A/T = Automatic Transmission

ABS = Anti-Lock Brake System

ACIS = Acoustic Control Induction System

BA = Brake Assist

DIFF. = Differential

DVD = Digital Versatile Disc

EC = Electrochromic

ECU = Electronic Control Unit

ESA = Electronic Spark Advance

ETCS-i = Electronic Throttle Control System-intelligent

EVAP = Evaporative Emission

IC = Integrated Circuit

J/B = Junction Block

LH = Left-Hand

R/B = Relay Block

RH = Right-Hand

SFI = Sequential Multiport Fuel Injection

SRS = Supplemental Restraint System

SW = Switch

TEMP. = Temperature

TRAC = Traction Control

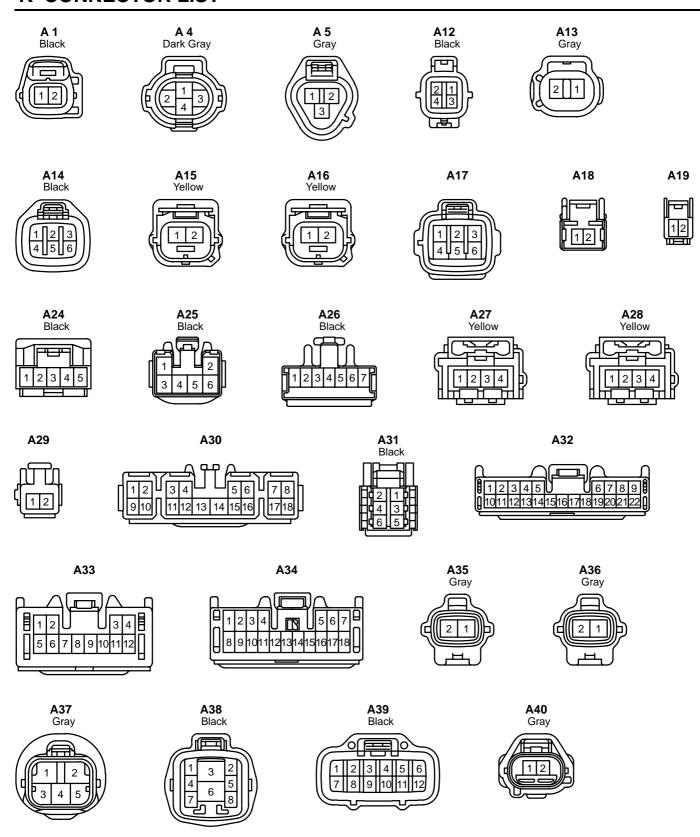
VSC = Vehicle Stability Control

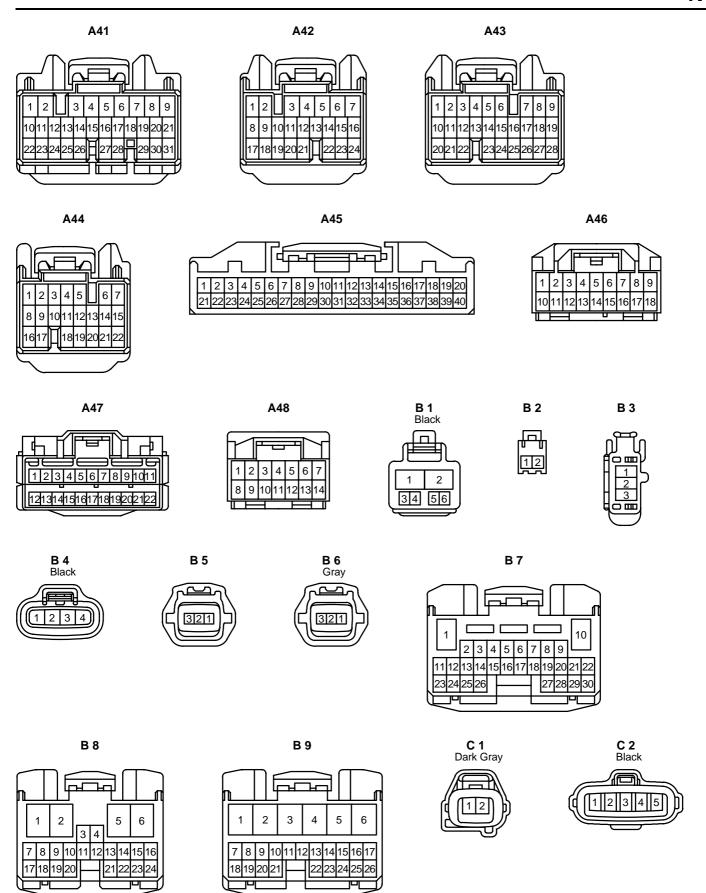
VSV = Vacuum Switching Valve

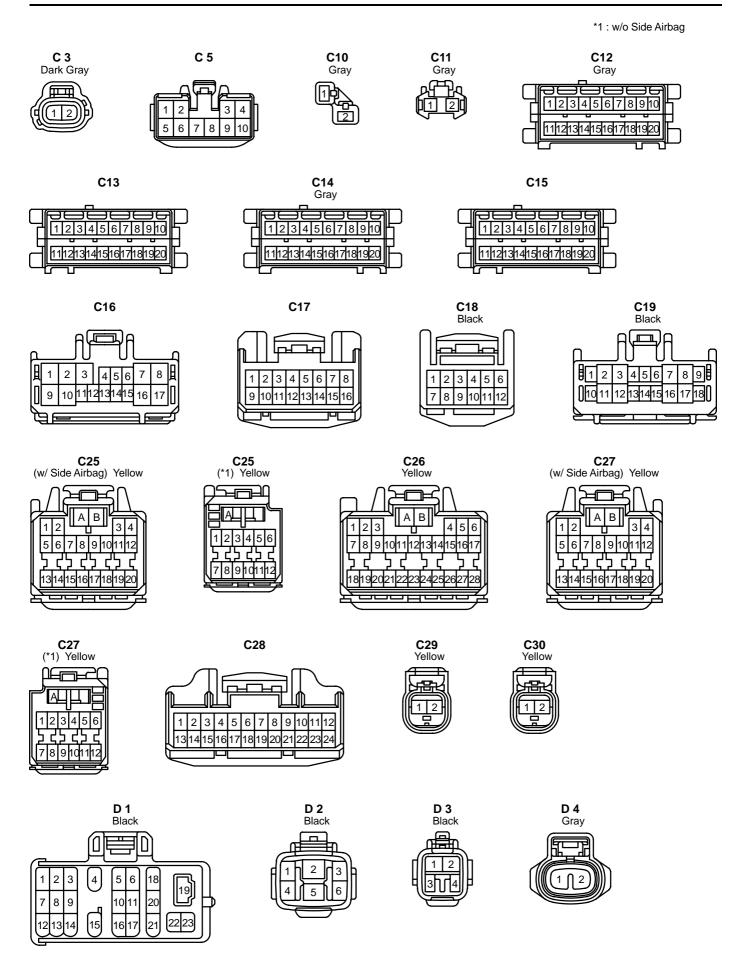
w/ = With

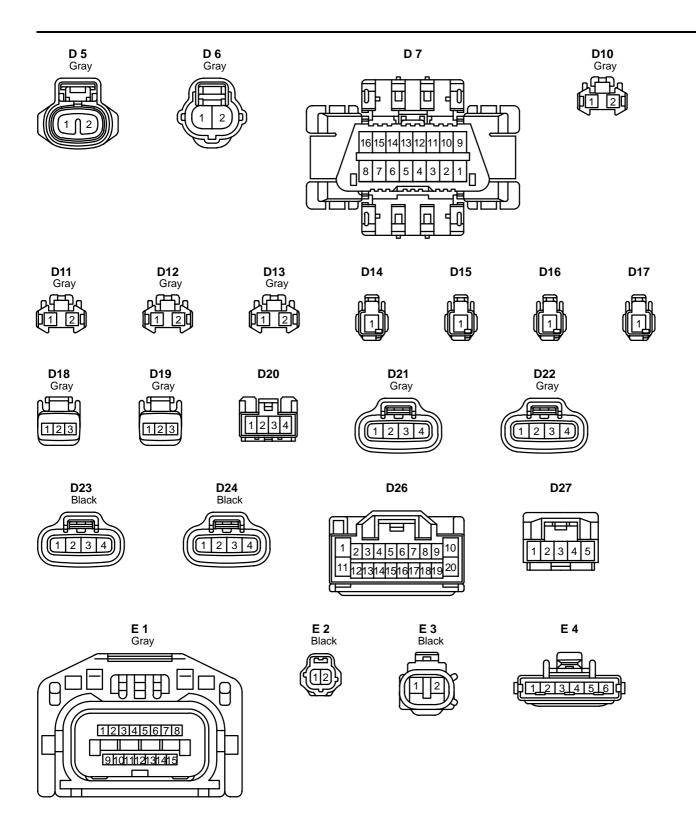
w/o = Without

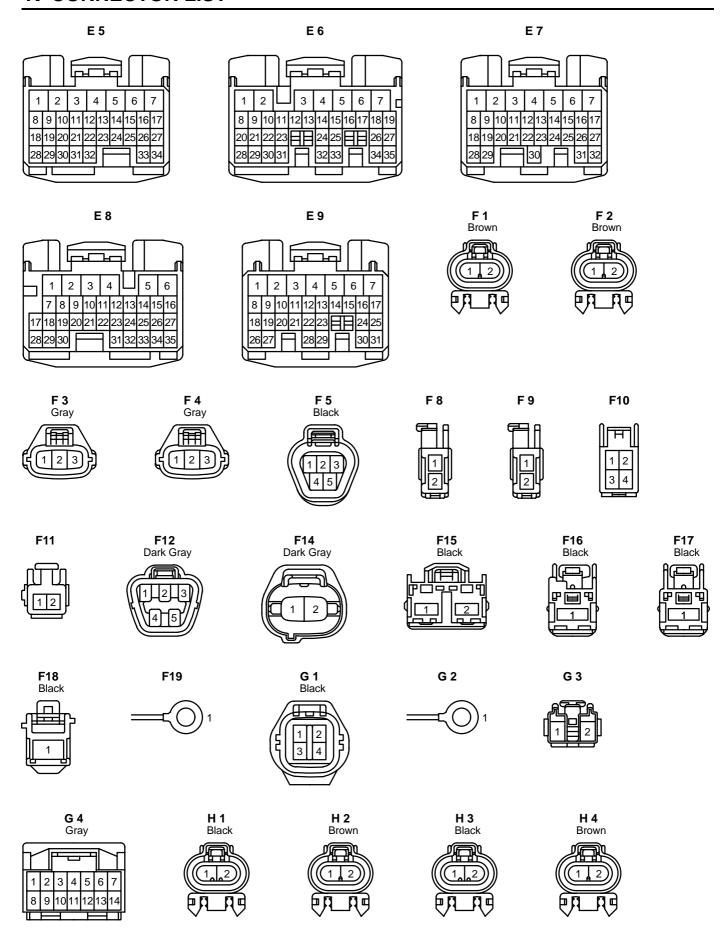
^{*} The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

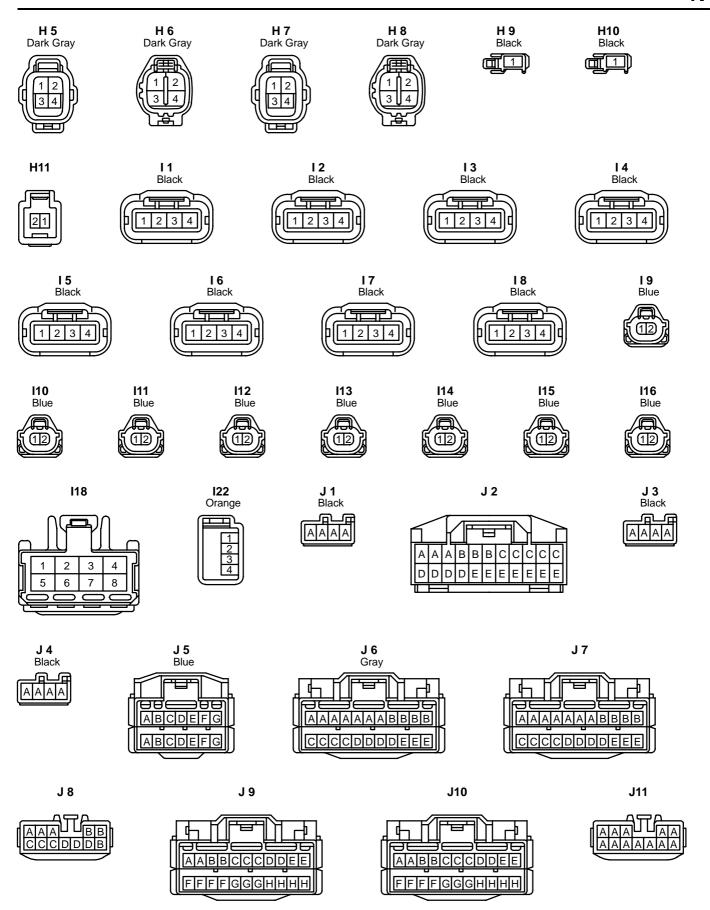


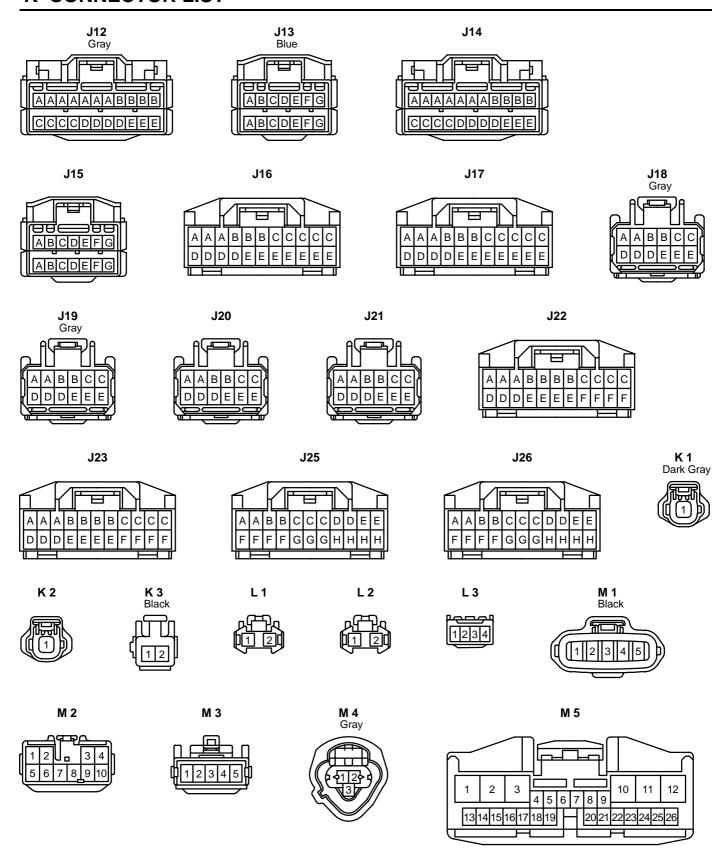


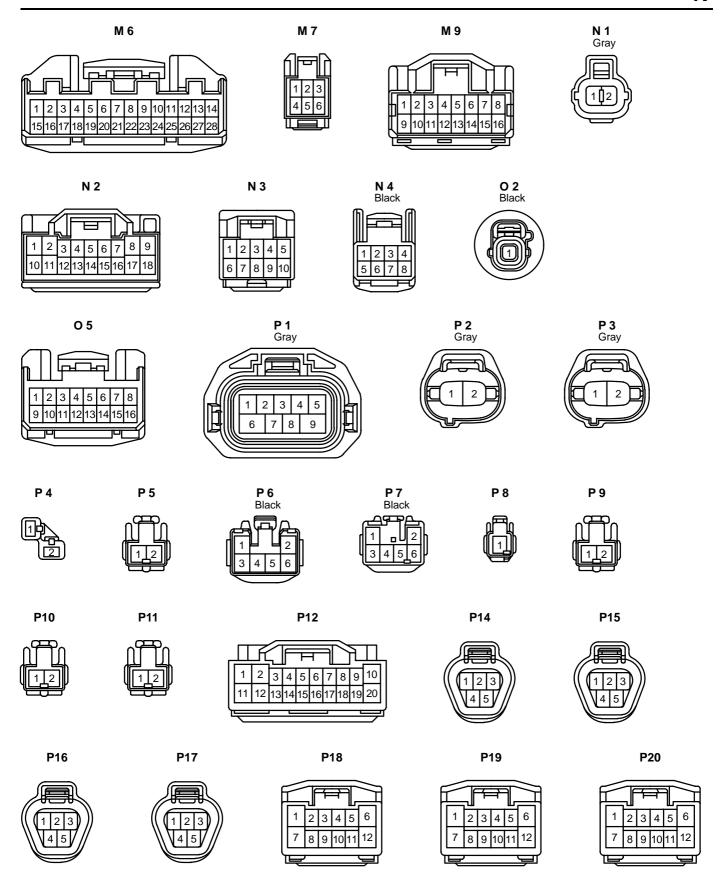


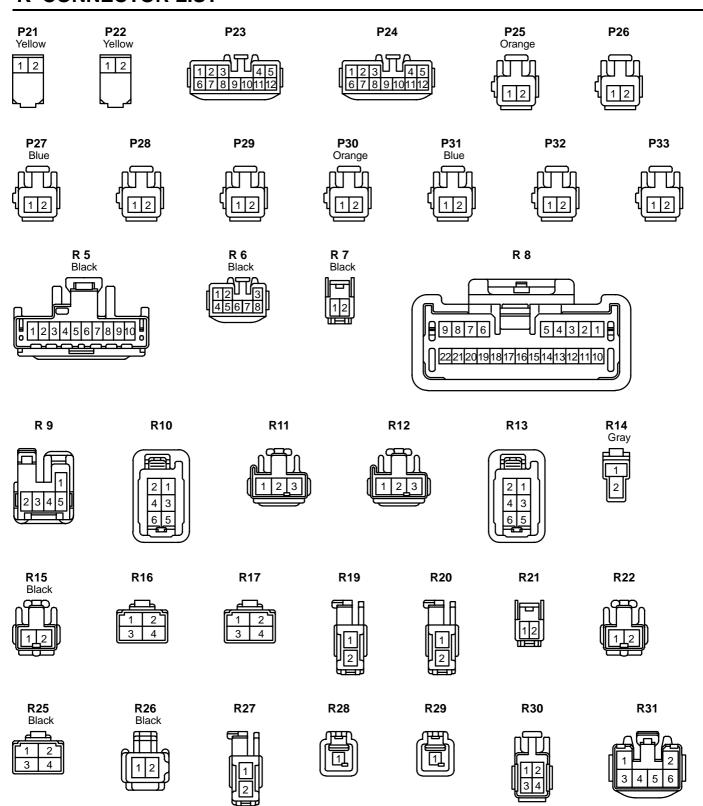


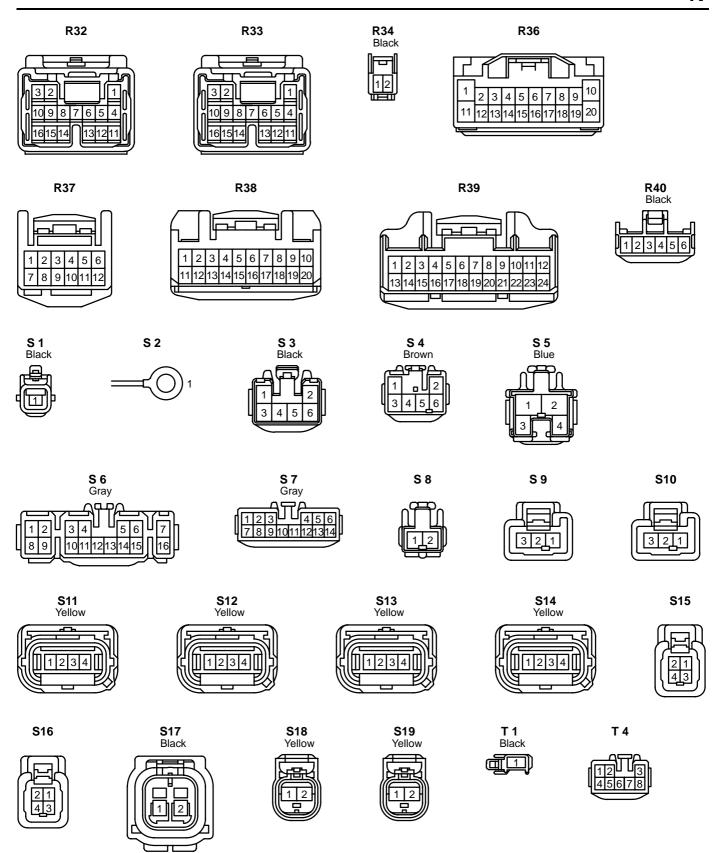


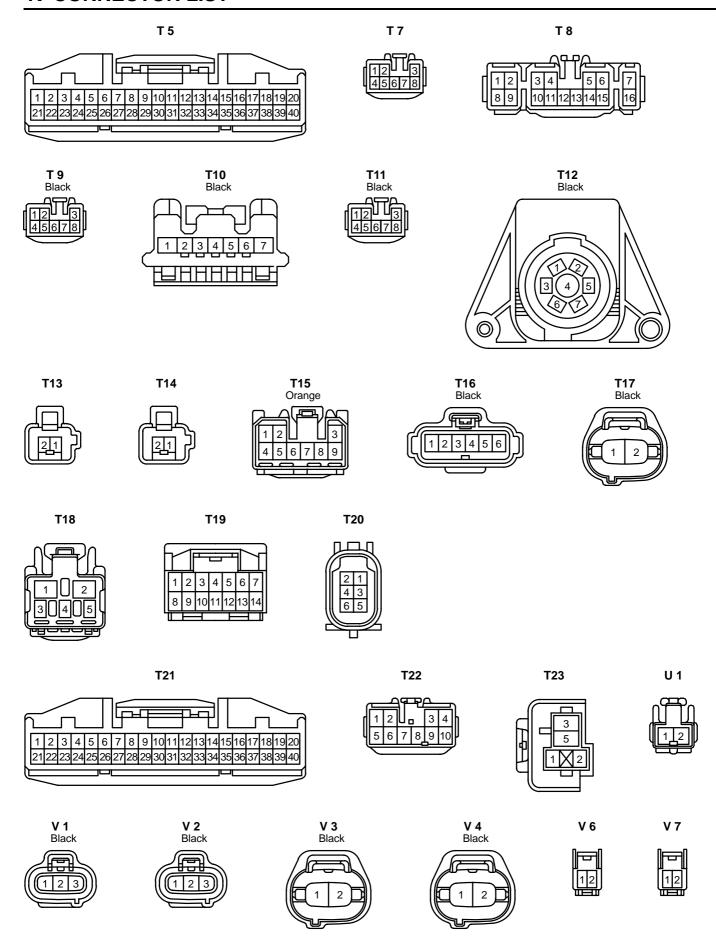


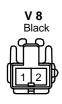










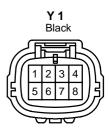












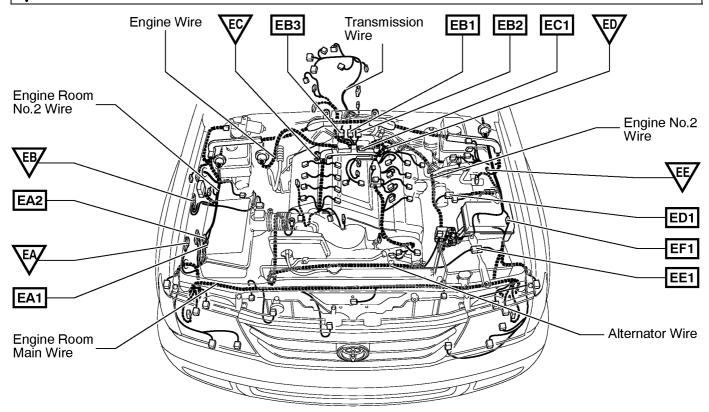
Z 1



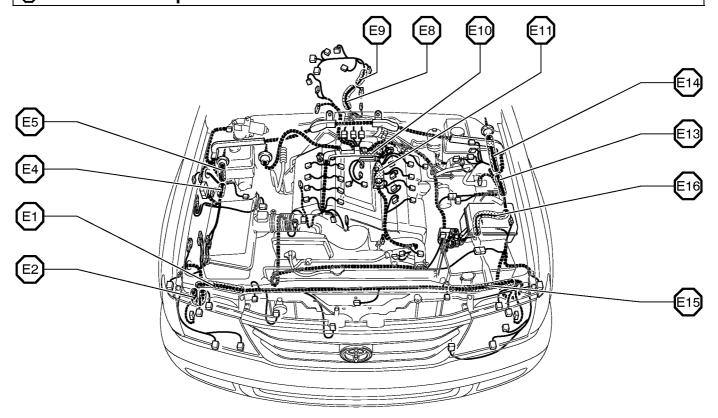
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

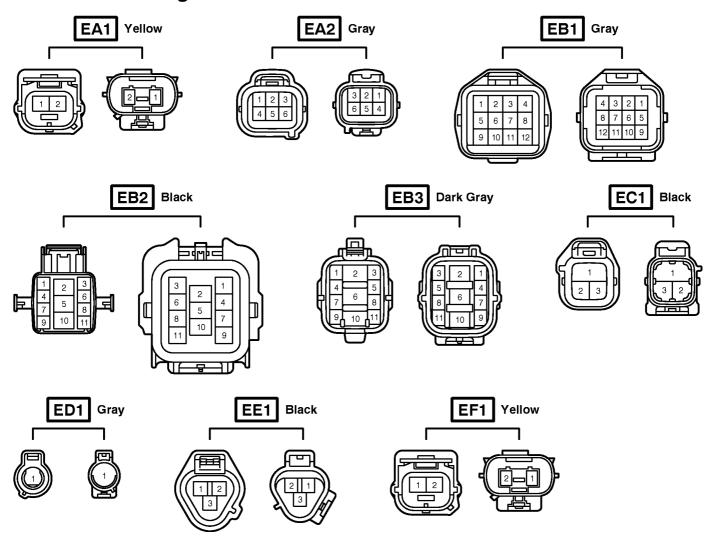
: Location of Ground Points



: Location of Splice Points

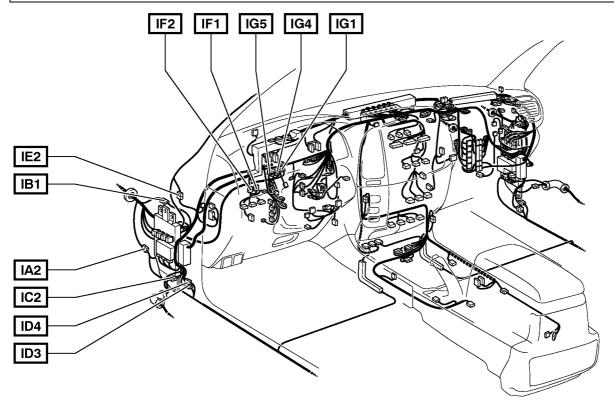


Connector Joining Wire Harness and Wire Harness

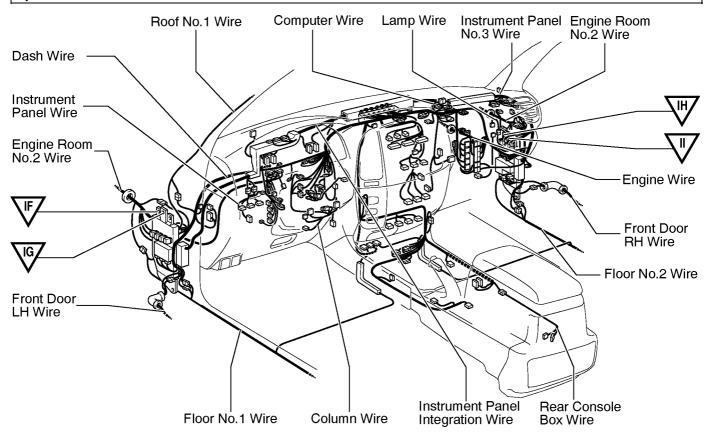


			
Code	Joining Wire Harness and Wire Harness (Connector Location)		
EA1	Engine Deem Main Wire and Engine Deem No 2 Wire (Engine Compositment Bight)		
EA2	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)		
EB1			
EB2	Engine Wire and Transmission Wire (On the Transmission)		
EB3			
EC1	Engine No.2 Wire and Engine Wire (On the Transmission)		
ED1	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)		
EE1	Engine Room Main Wire and Alternator Wire (Near the Battery)		
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)		

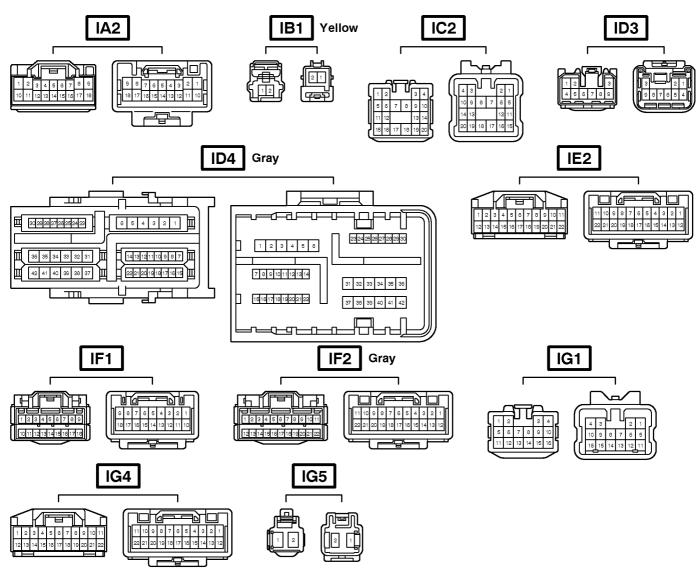
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Ground Points

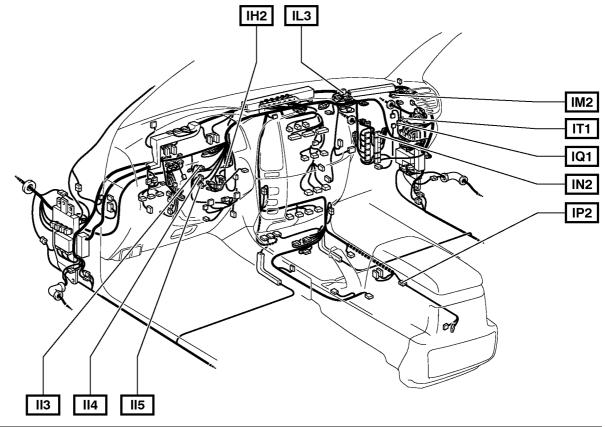


Connector Joining Wire Harness and Wire Harness

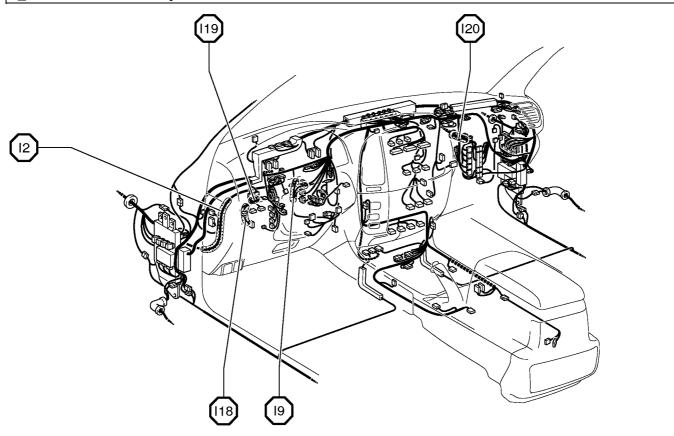


Code	Joining Wire Harness and Wire Harness (Connector Location)
IA2	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
IB1	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)
IC2	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID3	Dash Wire and Floor No.1 Wire (Left Kick Panel)
ID4	
IE2	Dash Wire and Roof No.1 Wire (Left Kick Panel)
IF1	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IF2	
IG1	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG4	
IG5	

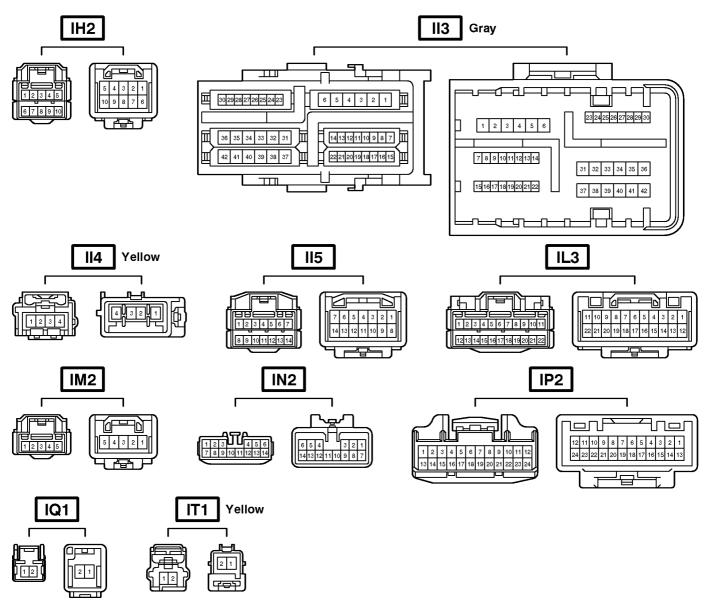
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points

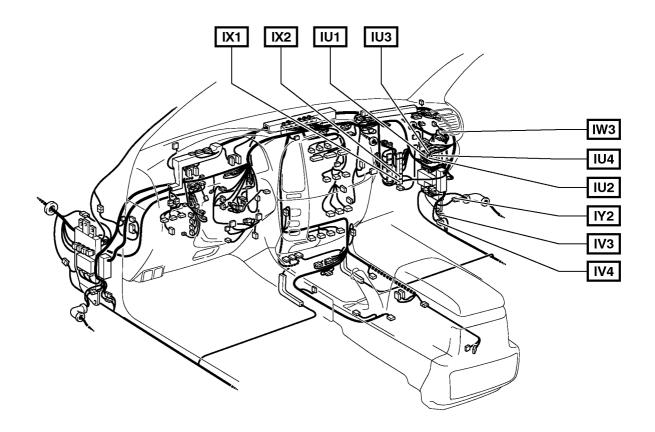


Connector Joining Wire Harness and Wire Harness

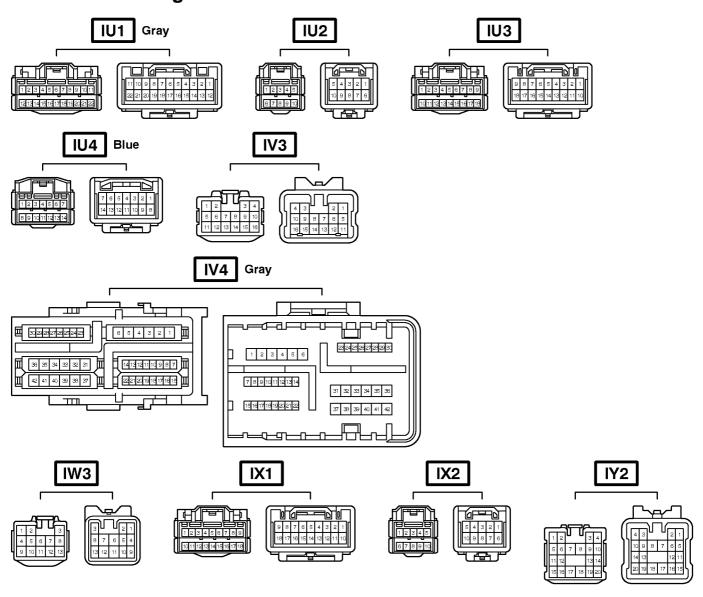


Code	Joining Wire Harness and Wire Harness (Connector Location)
IH2	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II3	
II4	Dash Wire and Column Wire (Near the Ignition SW)
II5	
IL3	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IM2	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)
IN2	Engine Wire and Dash Wire (Behind the Glove Box)
IP2	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
IQ1	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)
IT1	Engine Room No.2 Wire and Dash Wire (Right Kick Panel)

☐ : Location of Connector Joining Wire Harness and Wire Harness

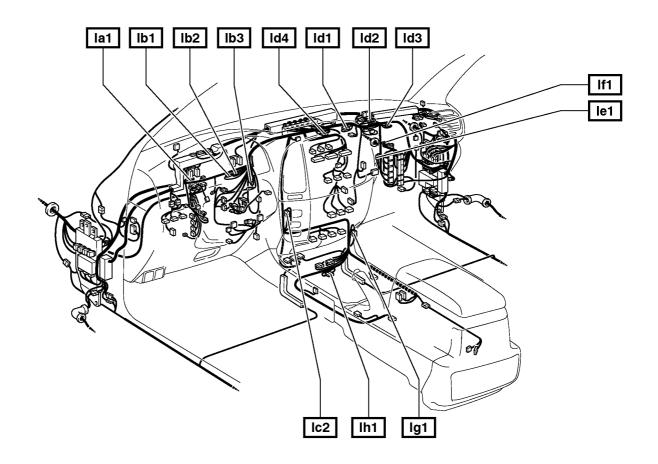


Connector Joining Wire Harness and Wire Harness

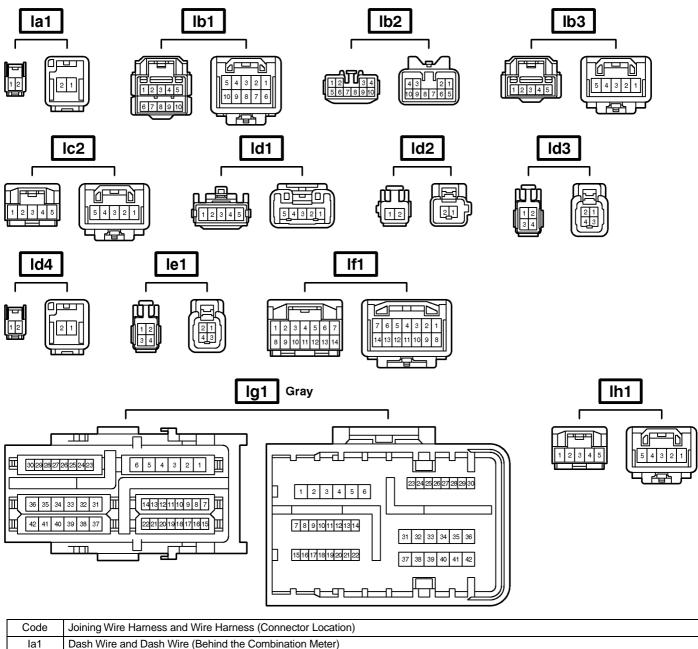


Code	Joining Wire Harness and Wire Harness (Connector Location)
IU1	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU2	
IU3	
IU4	
IV3	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IV4	
IW3	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IX2	
IY2	Front Door RH Wire and Dash Wire (Right Kick Panel)

☐ : Location of Connector Joining Wire Harness and Wire Harness

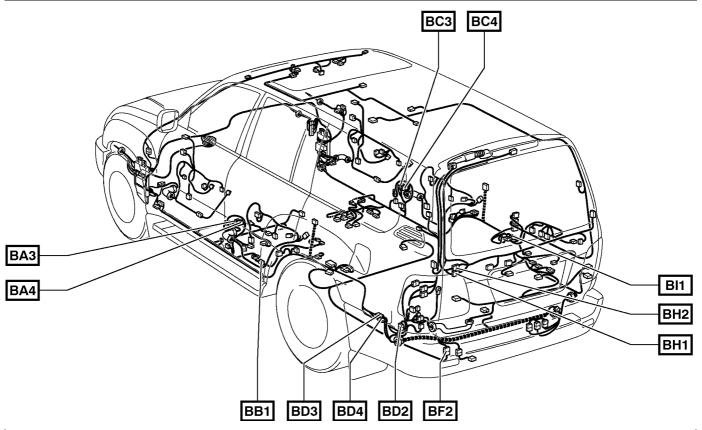


Connector Joining Wire Harness and Wire Harness

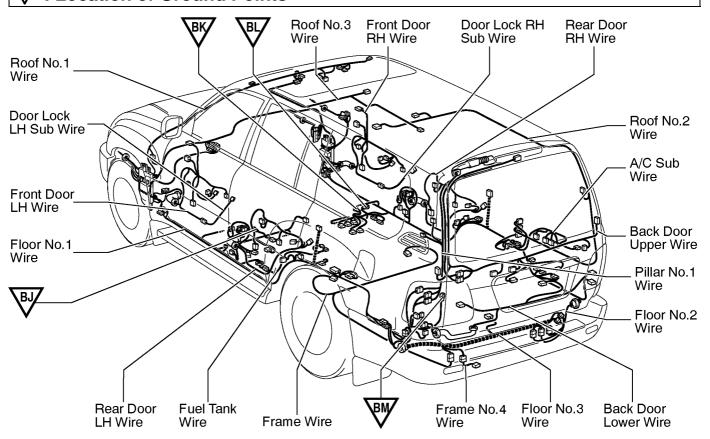


Code	Joining Wire Harness and Wire Harness (Connector Location)
la1	Dash Wire and Dash Wire (Behind the Combination Meter)
lb1	Dash Wire and Dash Wire (Behind the Combination Meter)
lb2	
lb3	
lc2	Dash Wire and Dash Wire (Behind the Center Panel)
ld1	Dash Wire and Dash Wire (Instrument Panel Center)
ld2	
ld3	
ld4	
le1	Dash Wire and Dash Wire (Behind the Glove Box)
lf1	Engine Wire and Engine Wire (Behind the Glove Box)
lg1	Dash Wire and Floor No.2 Wire (Right Side of Front Console)
lh1	Dash Wire and Dash Wire (Center Side of Front Console)

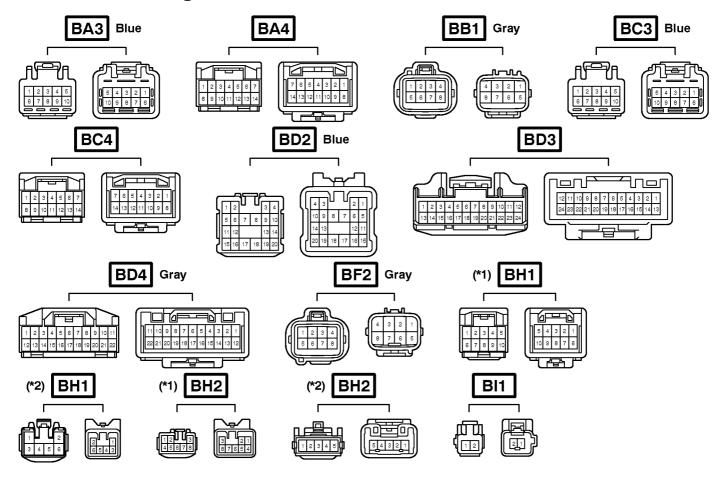
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Ground Points



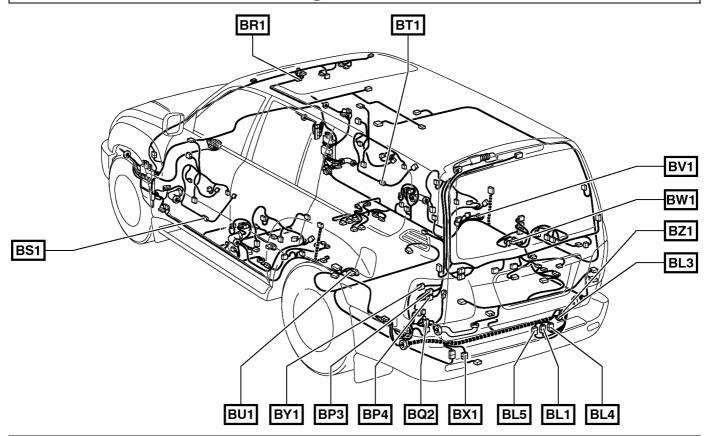
Connector Joining Wire Harness and Wire Harness



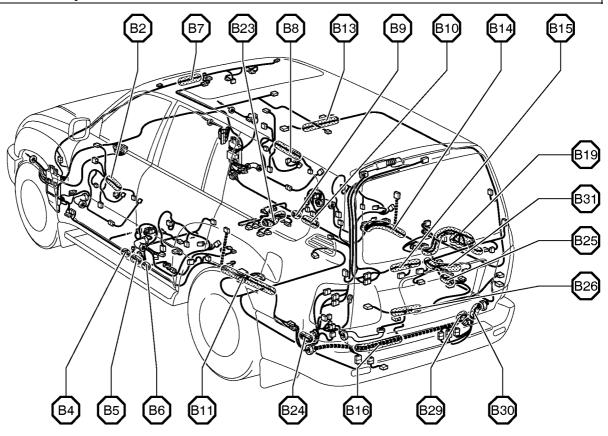
- * 1:w/ Navigation System * 2:w/o Navigation System

Code	Joining Wire Harness and Wire Harness (Connector Location)			
BA3	Door Door LLI Wire and Floor No. 4 Wire // of Cide of Center Biller)			
BA4	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)			
BB1	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)			
BC3	Page Door DLI Wire and Floor No 2 Wire (Bight Cide of Contar Billar)			
BC4	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			
BD2				
BD3	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BD4				
BF2	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)			
BH1	Dillay No. 4 Wire and Deek Deer Linney Wire /Left Cide of Deek Deer			
BH2	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BI1	Roof No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)			

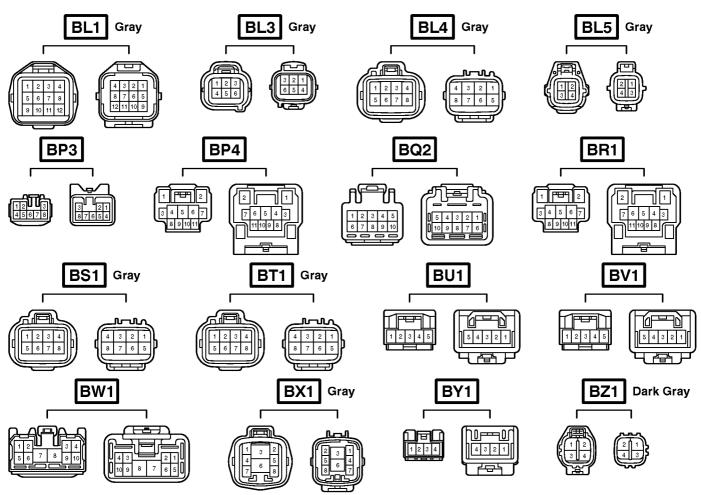
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points



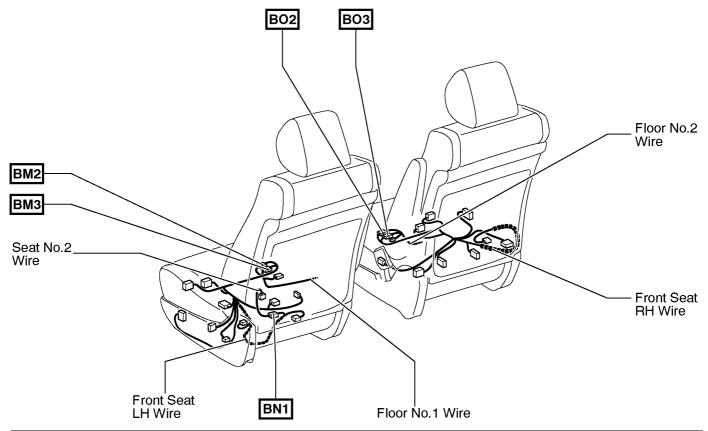
Connector Joining Wire Harness and Wire Harness



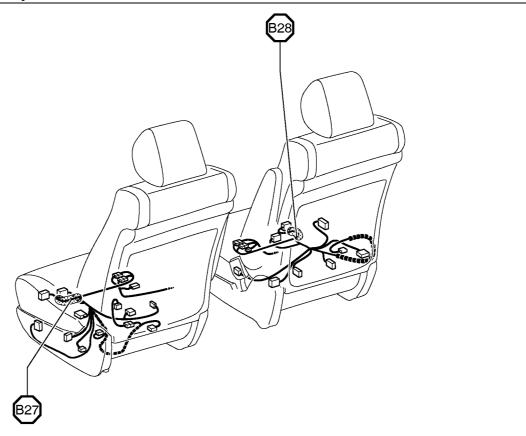
Code	Joining Wire Harness and Wire Harness (Connector Location)			
BL1				
BL3	Floor No. 2 Mire and Floor No. 2 Mire (Birth Cide of Door Floor Creamonth on)			
BL4	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BL5				
BP3	Biller No. 1 Wire and Floor No. 1 Wire // of Dear Side Overton Banelly			
BP4	- Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BQ2	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BR1	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)			
BS1	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)			
BT1	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)			
BU1	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)			
BV1	Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)			
BW1	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)			
BX1	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)			
BY1	Pillar No.1 Wire and Floor No.3 Wire (Left Rear Side Quarter Panel)			
BZ1	Floor No.3 Wire and Floor No.2 Wire (Right Side of Rear Floor Crossmember)			

G ELECTRICAL WIRING ROUTING

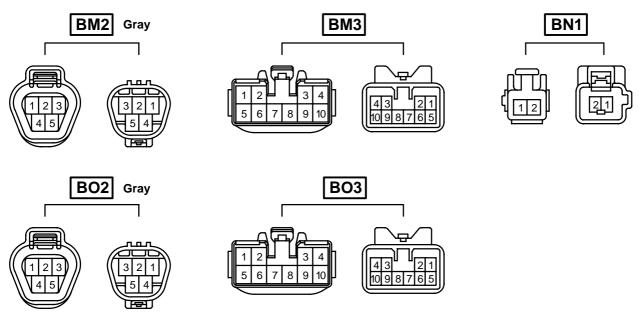
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points

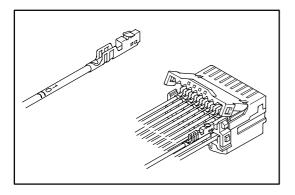


Connector Joining Wire Harness and Wire Harness



Code	Joining Wire Harness and Wire Harness (Connector Location)				
BM2	Floor No. 4 Wire and Front Cost I I I Wire /Front Cide Under the Driver's Cost				
ВМЗ	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)				
BN1	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)				
BO2	Floor No 2 Wire and Front Cost DLI Wire / Front Cida Lindar the Front December's Cost)				
BO3	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)				

HINT



WIRE COLOR AND TERMINAL NUMBER

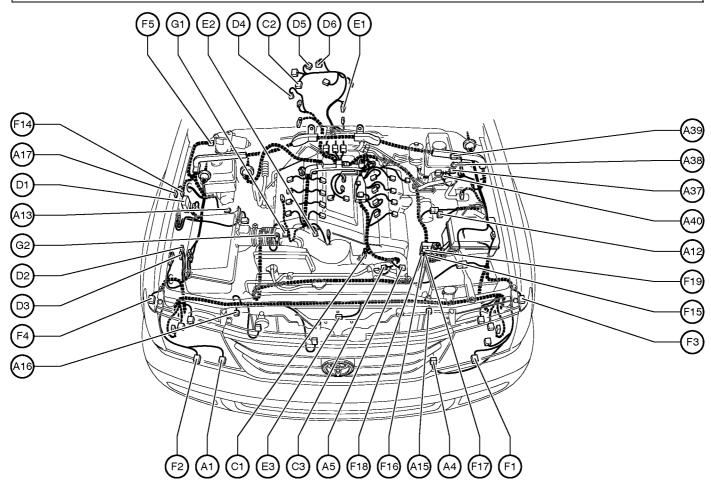
In some parts of the instrumental panel wiring harness, the same wire color (i.e. SB: Sky Blue) is used for all the wiring to a specific connector.

In order to identify the wiring, the terminal number is printed on the wiring.

Install the wiring to the connector position with the same terminal number.

Some early production Vehicles may not have these terminal numbers printed.

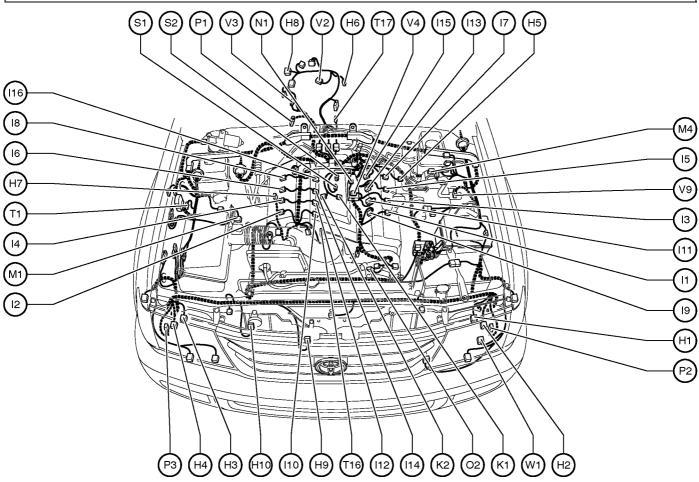
Position of Parts in Engine Compartment



- A 1 A/C Ambient Temp. Sensor
- A 4 Pressure SW
- A 5 A/C Lock Sensor A/C Magnetic Clutch
- A12 ABS Speed Sensor Front LH
- A13 ABS Speed Sensor Front RH
- A15 Airbag Sensor Front LH
- A16 Airbag Sensor Front RH
- A17 Auto Antenna Motor
- A37 ABS & BA & TRAC & VSC Actuator
- A38 ABS & BA & TRAC & VSC Actuator
- A39 ABS & BA & TRAC & VSC Actuator
- A40 ABS & BA & TRAC & VSC Actuator
- C 1 Camshaft Position Sensor
- C 2 Center Diff. Lock Control Motor
- C 3 Crankshaft Position Sensor
- D 1 Data Link Connector 1
- D 2 Daytime Running Light Relay No.3
- D 3 Daytime Running Light Relay No.3
- D 4 Detection SW (Center Diff. Lock)
- D 5 Detection SW (Transfer L Position)
- D 6 Detection SW (Transfer Neutral Position)

- E 1 Electronically Controlled Transmission Solenoid
- E 2 Engine Coolant Temp. Sensor
- E 3 Engine Hood Courtesy SW
- F 1 Front Fog Light LH
- F 2 Front Fog Light RH
- F 3 Front Turn Signal Light LH Side Marker Light LH
- F 4 Front Turn Signal Light RH Side Marker Light RH
- F 5 Front Wiper Motor
- F14 Fuel Pump Resistor
- F15 Fusible Link Block
- F16 Fusible Link Block
- F17 Fusible Link Block
- F18 Fusible Link Block
- F19 Fusible Link Block
- G 1 Generator
- G 2 Generator

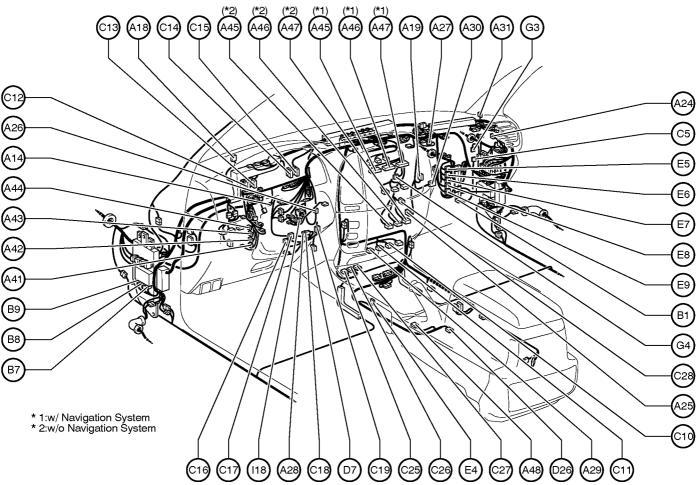
Position of Parts in Engine Compartment



- H 1 Headlight LH (High)
- H 2 Headlight LH (Low)
- H 3 Headlight RH (High)
- H 4 Headlight RH (Low)
- H 5 Heated Oxygen Sensor (Bank 1 Sensor 1)
- H 6 Heated Oxygen Sensor (Bank 1 Sensor 2)
- H 7 Heated Oxygen Sensor (Bank 2 Sensor 1)
- H 8 Heated Oxygen Sensor (Bank 2 Sensor 2)
- H 9 Horn LH
- H10 Horn RH
- Ignition Coil and Igniter No.1
- 2 Ignition Coil and Igniter No.2
- 3 Ignition Coil and Igniter No.3
- 4 Ignition Coil and Igniter No.4
- 5 Ignition Coil and Igniter No.5
- 6 Ignition Coil and Igniter No.6 I 7 Ignition Coil and Igniter No.7
- I 8 Ignition Coil and Igniter No.8
- I 9 Injector No.1
- I 10 Injector No.2
- I 11 Injector No.3
- I 12 Injector No.4
- I 13 Injector No.5
- I 14 Injector No.6 I 15 Injector No.7
- I 16 Injector No.8

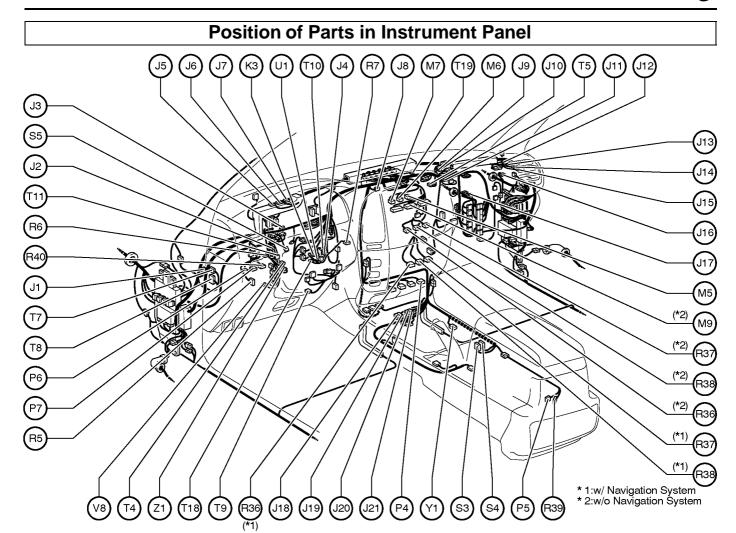
- K 1 Knock Sensor 1
- K 2 Knock Sensor 2
- M 1 Mass Air Flow Meter
- M 4 Master Cylinder Pressure Sensor
- N 1 Noise Filter (Ignition)
- O 2 Oil Pressure Sender
- 1 Park/Neutral Position SW
- 2 Parking Light LH
- 3 Parking Light RH
- S 1 Starter
- S 2 Starter
- T 1 Theft Deterrent Horn
- T16 Throttle Control Motor and Sensor
- T17 Turbine Speed Sensor
- V 2 Vehicle Speed Sensor (Combination Meter)
- V 3 Vehicle Speed Sensor (Electronically Controlled Transmission)
- V 4 VSV (EVAP)
- V 9 VSV (Canister Closed Valve)
- W 1 Washer Motor

Position of Parts in Instrument Panel



- A 14 Accel Position Sensor
- A 18 A/C Solar Sensor
- A 19 A/C Thermistor
- A 24 Air Inlet Control Servo Motor
- A 25 Air Mix Control Servo Motor
- A 26 Air Vent Mode Control Servo Motor
- A 27 Airbag Squib (Front Passenger Airbag Assembly)
- A 28 Airbag Squib (Steering Wheel Pad)
- A 29 Ashtray Illumination
- A 30 Auto Antenna Control Relay
- A 31 Automatic Light Control Sensor
- A 41 ABS & BA & TRAC & VSC ECU
- A 42 ABS & BA & TRAC & VSC ECU
- A 43 ABS & BA & TRAC & VSC ECU
- A 44 ABS & BA & TRAC & VSC ECU
- A 45 A/C Control Assembly
- A 46 A/C Control Assembly
- A 47 A/C Control Assembly
- A 48 A/T Shift Lever Illumination Shift Lock Control ECU
- B 1 Blower Motor Controller
- B 7 Body ECU
- B 8 Body ECU
- B 9 Body ECU
- C 5 Center Diff. Lock Control Relay
- C 10 Cigarette Lighter

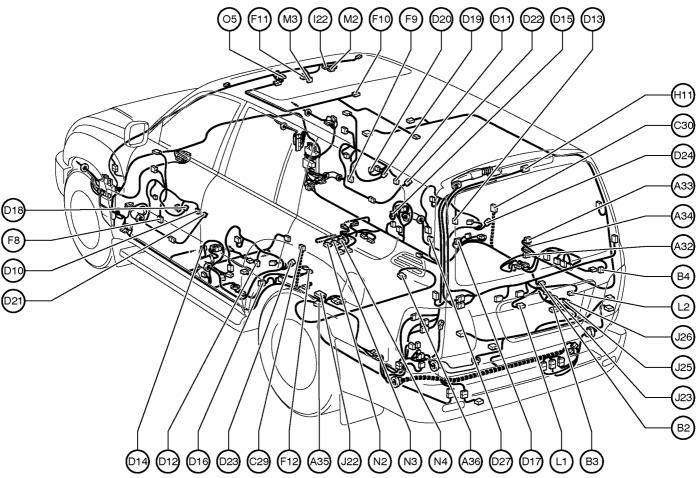
- C 11 Cigarette Lighter Illumination
- C 12 Combination Meter
- C 13 Combination Meter
- C 14 Combination Meter
- C 15 Combination Meter
- C 16 Combination SW
- C 17 Combination SW
- C 18 Combination SW
- C 19 Combination SW
- C 25 Center Airbag Sensor Assembly
- C 26 Center Airbag Sensor Assembly
- C 27 Center Airbag Sensor Assembly
- C 28 Center Cluster Integration Panel
- D 7 Data Link Connector 3
- D 26 DVD Automatic Changer
- E 4 Electronically Controlled Transmission Pattern Select SW
- E 5 Engine Control Module
- E 6 Engine Control Module
- E 7 Engine Control Module
- E 8 Engine Control Module
- E 9 Engine Control Module
- G 3 Glove Box Light
- G 4 Gateway ECU
- I 18 Ignition SW



- Junction Connector
- Junction Connector Junction Connector
- Junction Connector
- Junction Connector Junction Connector
- Junction Connector
- Junction Connector
- Junction Connector Junction Connector
- 10
- Junction Connector 11 Junction Connector 12
- Junction Connector Junction Connector 14
- Junction Connector 15 Junction Connector 16
- Junction Connector 17
- Junction Connector 18
- Junction Connector 19
- Junction Connector 20
- Junction Connector
- K 3 Key Interlock Solenoid
- Multi-Display
- Μ 6 Multi-Display
- Multi-Display
- Multi-Display
- Power Outlet (Front)
- Power Outlet (Rear Console Box)
- Power Quarter Window SW LH Power Quarter Window SW RH

- R 5 Remote Control Mirror SW
- R R Rheostat 6
- R 7 Room Temp. Sensor (Front) R 36 Radio and Player
- Radio and Player R 37
- Radio and Player R 38
- R 39
- Rear Seat Audio Controller
 Roll Sensing of Curtain Shield Airbags Cutoff SW R 40
- Seat Heater SW (Driver's Seat)
- s s Seat Heater SW (Front Passenger's Seat)
- 5 Stop Light SW
- Telescopic Motor
- Theft Deterrent ECU Т Ť
- Tilt and Telescopic ECU
- Tilt and Telescopic ECU Т 8
- 9 Tilt Motor
- T 10 Ignition Key Cylinder Light Transponder Key Amplifier
- Turn Signal Flasher
 Towing Brake Controller
- Transponder Key Computer
- 1 Unlock Warning SW
- 8 VSC Warning Buzzer
- Yaw Rate Sensor
- Z 1 Option Connector (Glass Breakage Sensor)





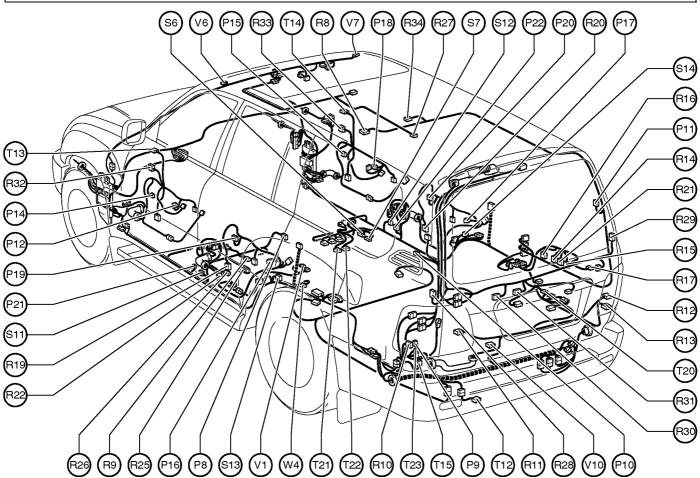
- A32 A/C Amplifier (Rear)

- A33 A/C Amplifier (Rear)
 A34 A/C Amplifier (Rear)
 A35 ABS Speed Sensor Rear LH
 A36 ABS Speed Sensor Rear RH
- B 2 Back Door Courtesy SW
- B 3 Back Door Key Lock and Unlock SW B 4 Back Door Lock Motor
- - Back Door Unlock Detection SW
- C29 Curtain Shield Airbag Squib LH
- C30 Curtain Shield Airbag Squib RH
- D10 Door Courtesy Light Front LH
- D11 Door Courtesy Light Front RH
- D12 Door Courtesy Light Rear LH
- D13 Door Courtesy Light Rear RH
 D14 Door Courtesy SW Front LH
 D15 Door Courtesy SW Front RH
 D16 Door Courtesy SW Rear LH

- D17 Door Courtesy SW Rear RH
- D18 Door Key Lock and Unlock SW LH D19 Door Key Lock and Unlock SW RH
- D20 Door Lock Control SW RH
- D21 Door Lock Motor Front LH
- Door Unlock Detection SW Front LH
- D22 Door Lock Motor Front RH
- Door Unlock Detection SW Front RH
- D23 Door Lock Motor Rear LH
- Door Unlock Detection SW Rear LH D24 Door Lock Motor Rear RH
- Door Unlock Detection SW Rear RH
- D27 Door Control Receiver

- 8 Front Door Speaker LH
- F 9 Front Door Speaker RH
- F10 Front Interior Light
- Rear Personal Light F 11 Front Personal Light
- F 12 Fuel Pump Fuel Sender
- H11 High Mounted Stop Light
- I 22 Inner Mirror
- J 22 Junction Connector
- J 23 Junction Connector J 25 Junction Connector
- J 26 Junction Connector
- L 1 License Plate Light LH
- L 2 License Plate Light RH
- M 2 Moon Roof Control ECU
- M 3 Moon Roof Control SW
- N 2 Navigation ECU
- 3 Navigation ECU 4 Navigation ECU
- O 5 Overhead J/B

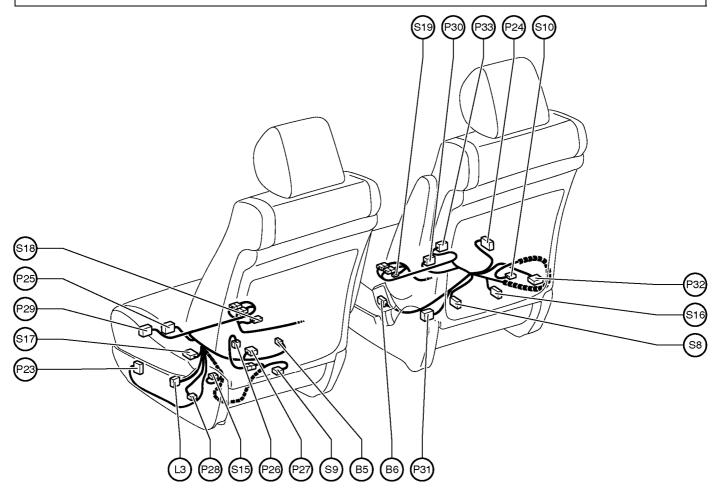
Position of Parts in Body



- P 8 Parking Brake SW
- P 9 Power Outlet (Luggage Compartment)
- P10 Power Vent Window Motor LH
- P 11 Power Vent Window Motor RH
- P12 Power Window Master SW
- P14 Power Window Motor Front LH
- P15 Power Window Motor Front RH
- P16 Power Window Motor Rear LH
- P17 Power Window Motor Rear RH
- P18 Power Window Control SW Front RH
- P19 Power Window Control SW Rear LH
- P20 Power Window Control SW Rear RH
- P21 Pretensioner LH
- P22 Pretensioner RH
- R 8 Rear A/C Control SW
- R 9 Rear Air Mix Control Servo Motor
- R10 Rear Combination Light LH
- R11 Rear Combination Light LH
- R12 Rear Combination Light RH
- R13 Rear Combination Light RH
- R14 Rear Cooler Blower Motor
- R15 Rear Cooler Magnetic Valve
- R16 Rear Cooler Power Transistor
- R17 Rear Cooler Relay
- R19 Rear Door Speaker LH
- R20 Rear Door Speaker RH
- R21 Rear Evaporator Temp. Sensor
- R22 Rear Heater Blower Motor
- R25 Rear Heater Power Transistor
- R26 Rear Inlet Air Temp. Sensor

- R27 Rear Interior Light
- R28 Rear Window Defogger
- R29 Rear Window Defogger
- R30 Rear Wiper Motor
- R31 Rear Wiper Relay
- R32 Remote Control Mirror LH
- R33 Remote Control Mirror RH
- R34 Room Temp. Sensor (Rear)
- S 6 Stereo Component Amplifier
- S 7 Stereo Component Amplifier
- S 11 Side Airbag Sensor Front LHS 12 Side Airbag Sensor Front RH
- S13 Side Airbag Sensor Rear LH
- S14 Side Airbag Sensor Rear RH
- T12 Trailer Socket
- T13 Tweeter LH
- T14 Tweeter RH
- T 15 Towing Converter Relay
- T 20 Television Camera
- T21 Television Camera ECU
- T 22 Television Camera ECU
- T23 Towing Hitch Relay
- V 1 Vapor Pressure Sensor
- V 6 Vanity Light LH
- V 7 Vanity Light RH
- V10 VSV (Pressure Switching Valve)
- W 4 Woofer (Speaker)

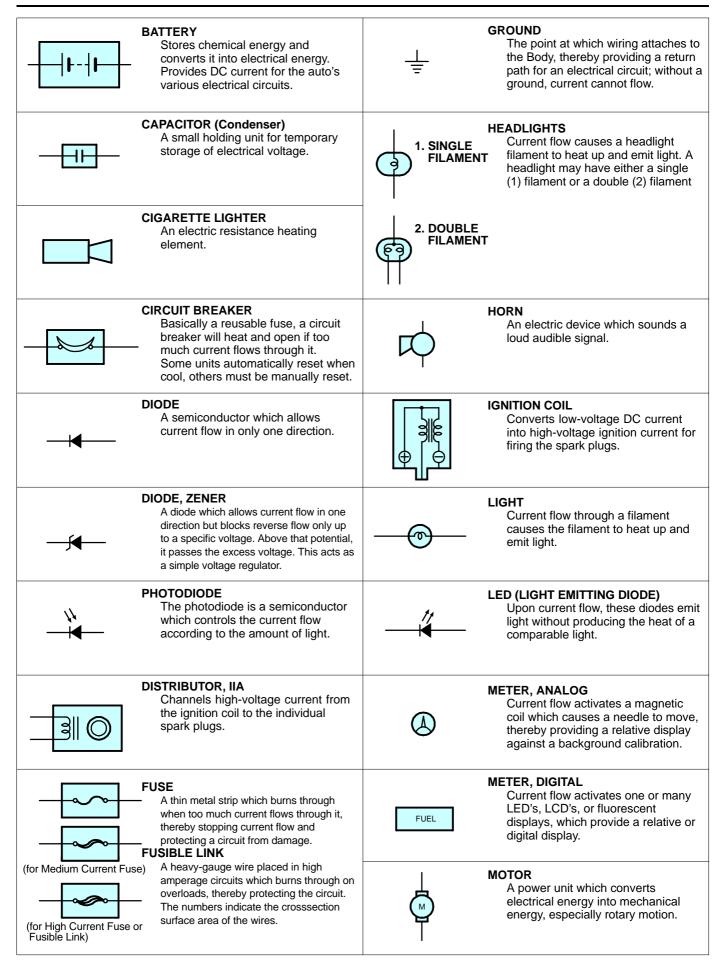
Position of Parts in Seat



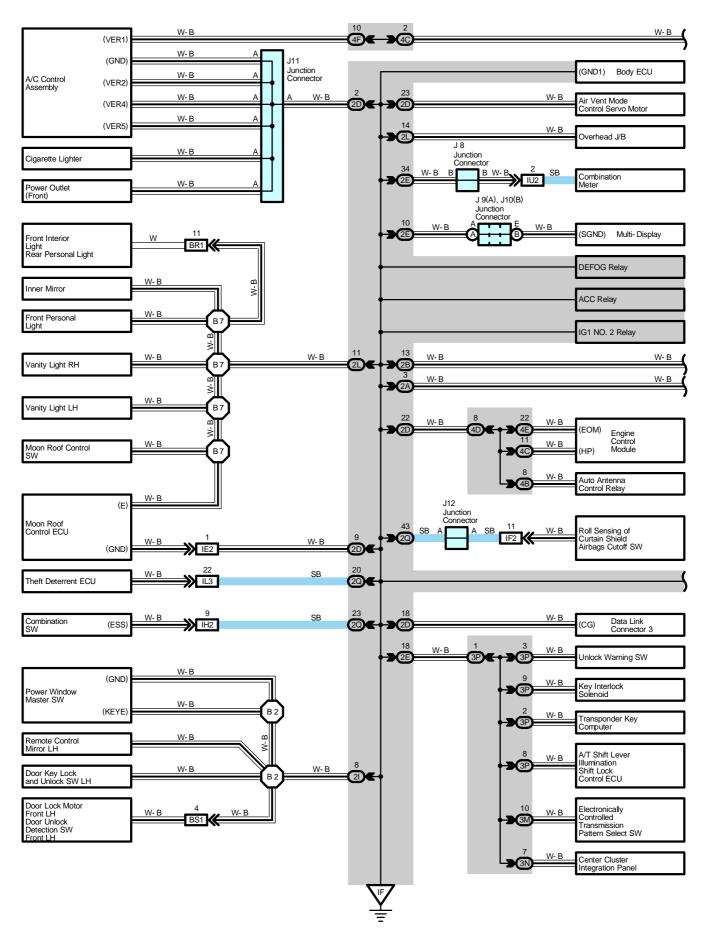
- B 5 Buckle SW LH
- B 6 Buckle SW RH
- L 3 Lumbar Support Control SW (Driver's Seat)
- P23 Power Seat Control SW (Driver's Seat)
- P24 Power Seat Control SW (Front Passenger's Seat)
- P25 Power Seat Motor (Driver's Seat Front Vertical Control)
- P26 Power Seat Motor
 - (Driver's Seat Lumbar Support Control)
- P27 Power Seat Motor (Driver's Seat Rear Vertical Control)
- P28 Power Seat Motor (Driver's Seat Reclining Control)
- P29 Power Seat Motor (Driver's Seat Slide Control)
- P30 Power Seat Motor
 - (Front Passenger's Seat Front Vertical Control)
- P31 Power Seat Motor
 - (Front Passenger's Seat Rear Vertical Control)
- P32 Power Seat Motor
 - (Front Passenger's Seat Reclining Control)
- P33 Power Seat Motor
 - (Front Passenger's Seat Slide Control)

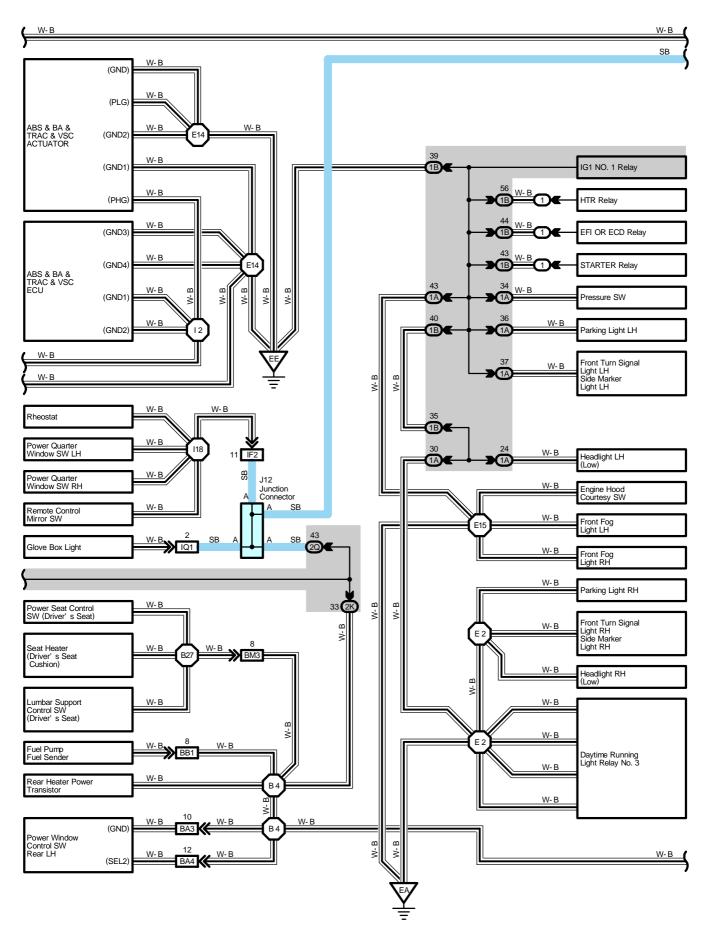
- S 8 Seat Belt Warning Occupant Detection Sensor
- S 9 Seat Heater (Driver's Seat)
- S10 Seat Heater (Front Passenger's Seat)
- S15 Seat Heater (Driver's Seat Cushion)
- S16 Seat Heater (Front Passenger's Seat Cushion)
- S17 Seat Position Sensor
- S18 Side Airbag Squib LH
- S19 Side Airbag Squib RH

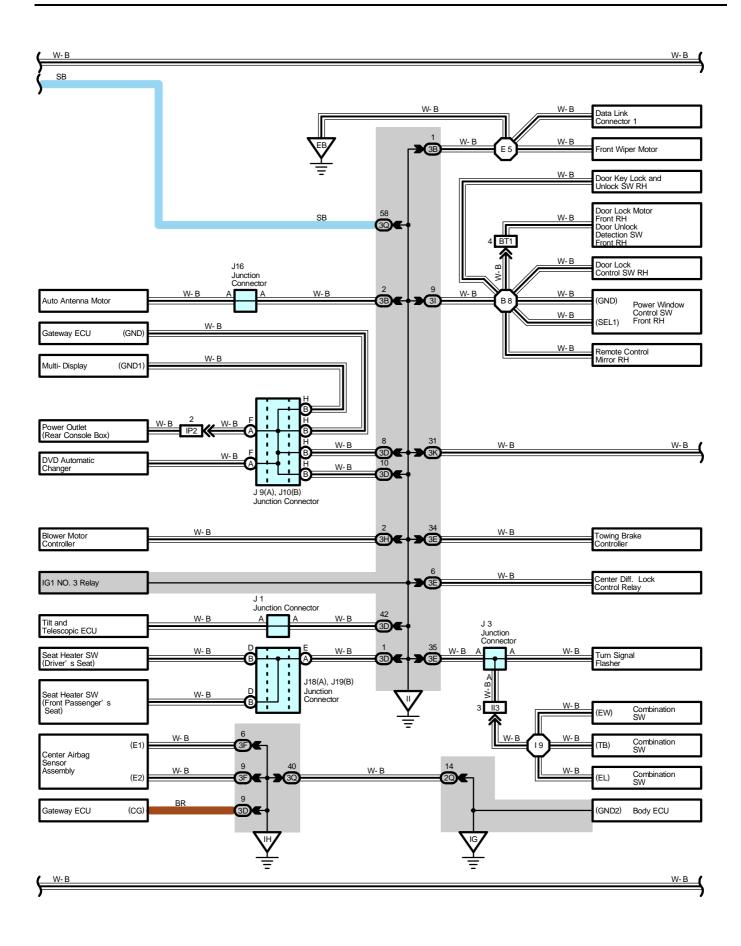
E GLOSSARY OF TERMS AND SYMBOLS

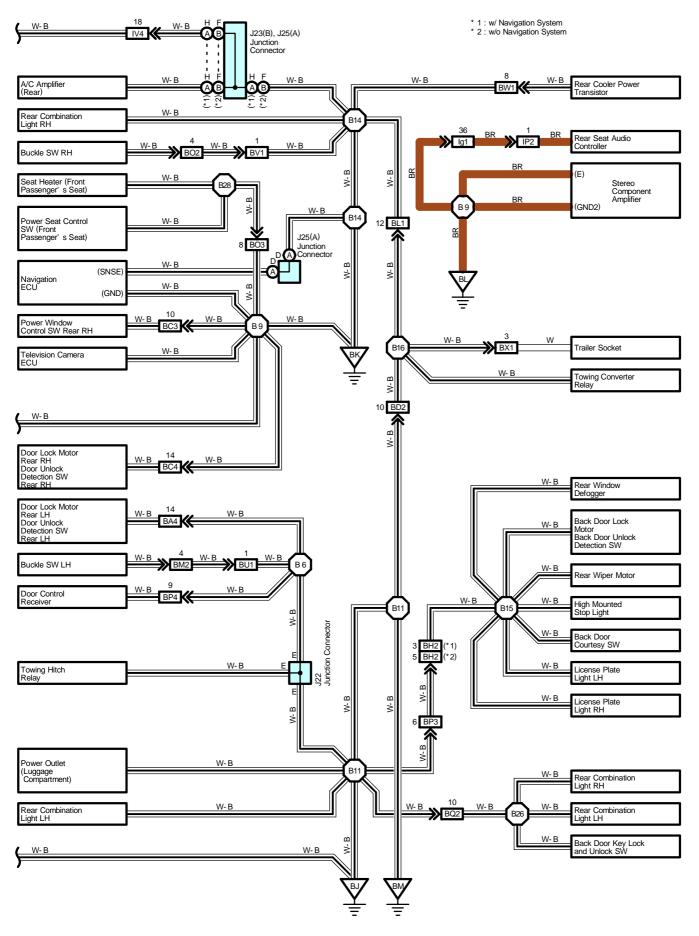


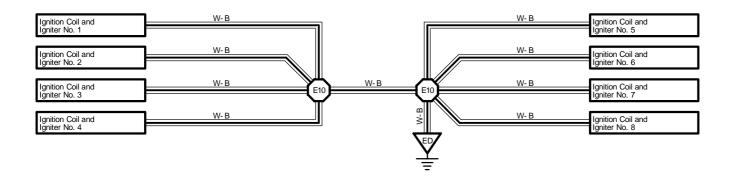
SPEAKER RELAY An electromechanical device which Basically, an electrically operated creates sound waves from current 1. NORMALLY switch which may be normally CLOSED flow. closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch. 2. NORMALLY SWITCH, MANUAL Opens and closes **OPEN** circuits, thereby 1. NORMALLY stopping (1) or **OPEN** allowing (2) current flow. **RELAY, DOUBLE THROW** A relay which passes current 2. NORMALLY through one set of contacts or the **CLOSED** SWITCH, DOUBLE THROW **RESISTOR** A switch which continuously passes An electrical component with a fixed current through one set of contacts resistance, placed in a circuit to reduce voltage to a specific value. or the other. **RESISTOR, TAPPED** SWITCH, IGNITION A resistor which supplies two or A key operated switch with several more different non adjustable positions which allows various resistance values. circuits, particularly the primary ignition circuit, to become operational. **RESISTOR, VARIABLE or RHEOSTAT** A controllable resistor with a variable rate of resistance. Also called a potentiometer or rheostat. **SENSOR (Thermistor)** SWITCH, WIPER PARK A resistor which varies its resistance Automatically returns wipers to the with temperature. stop position when the wiper switch is turned off. SENSOR, SPEED **TRANSISTOR** A solidstate device typically used as Uses magnetic impulses to open and close a switch to create a signal an electronic relay; stops or passes for activation of other components. current depending on the voltage (Reed Switch Type) applied at "base". **SHORT PIN WIRES** Used to provide an unbroken Wires are always drawn as connection within a junction block. (1) NOT straight lines on wiring **CONNECTED** diagrams. Crossed wires (1) without a black dot at the junction are not ioined: **SOLENOID** crossed wires (2) with a An electromagnetic coil which forms black dot or octagonal (mark at the junction are a magnetic field when current flows, (2) SPLICED to move a plunger, etc. spliced (joined) connections.

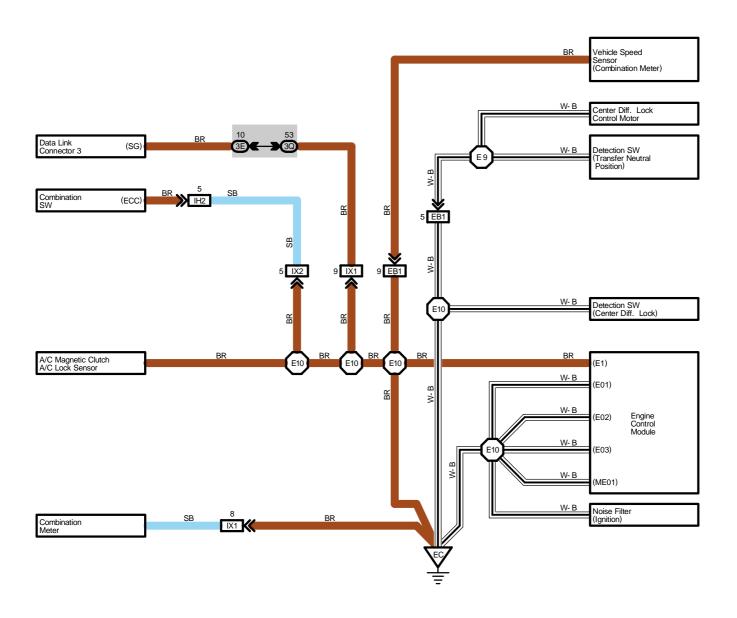












O : Parts Location

Code		See Page	Со	de	See Page	Co	de	See Page
J1		71	J1	11	71	J2	22	72
J3		71	J1	2	71	J23	В	72
J	8	71	J1	16	71	J25	Α	72
J9	Α	71	J18	Α	71			
J10	В	71	J19	В	71			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2A	00	Familia Decar No C.Wire and Coul Cide (ID LLL (Left Viel, Decal)				
2B	- 28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2D	20	Doob Wire and Coul Side I/D LLL (Left Kiels Dane)				
2E	- 28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)				
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3D						
3E	40	Dook Wire and Coud Cide I/D DI I / Dight Viels Done)				
3F	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3H						
31	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)				
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3M						
3N	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3P						
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4B						
4C						
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)				
4E						
4F						

I GROUND POINT

: Connector Joining Wire Harness and Wire Harness

See Page Joining Wire Harness and Wire Harness (Connector Location)	EB1 76						
IE2	IE2 78	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IF2	IF2	EB1	76	Engine Wire and Transmission Wire (On the Transmission)			
IH2 80	IH2	IE2	78	Dash Wire and Roof No.1 Wire (Left Kick Panel)			
II3 80 Dash Wire and Column Wire (Near the Ignition SW) IL3 80 Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center) IP2 80 Rear Console Box Wire and Dash Wire (Right Side of Rear Console) IQ1 80 Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box) IU2 82 Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box) IV4 82 Dash Wire and Floor No.2 Wire (Right Kick Panel) IX1 IX2 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) IQ1 84 Dash Wire and Floor No.2 Wire (Right Side of Front Console) BA3 BA4 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) BB4 36 Floor No.1 Wire and Floor No.1 Wire (Near the Fuel Tank) BC3 86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BC4 BC5 Rear Door RH Wire and Floor No.2 Wire (Right Side of Back Door) BL1 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BL2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 80 Floor No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BC4 86 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BC5 BC6 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BC6 BC7 BC8 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BC8 BC9 B	II3 80	IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)			
IL3	IL3	IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)			
IP2	IP2	II3	80	Dash Wire and Column Wire (Near the Ignition SW)			
IQ1 80 Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box) IU2 82 Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box) IV4 82 Dash Wire and Floor No.2 Wire (Right Kick Panel) IX1 IX2 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) IX2 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) IX3 84 Dash Wire and Floor No.2 Wire (Right Side of Front Console) BA3 BA4 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) BB1 86 Floor No.1 Wire and Floor No.1 Wire (Near the Fuel Tank) BC3 BC4 86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BB2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 BP4 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR4 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR5 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BR1 88 Roof No.3 Wire and Front Door LH Wire (Front Door RH) BR1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	IQ1 80 Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box) IU2 82 Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box) IV4 82 Dash Wire and Floor No.2 Wire (Right Kick Panel) IX1 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) IX2 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) IX3 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) IX4 B81 B84 Dash Wire and Floor No.2 Wire (Right Side of Front Console) BA3 BA4 B86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) B86 Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank) B87 B86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) B89 B86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) B89 B86 Floor No.2 Wire and Back Door Upper Wire (Left Side of Back Door) B89 B80 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) B80 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) B80 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) B80 Floor No.2 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) B81 B82 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) B82 B83 Back Door Lower Wire and Floor No.1 Wire (Front Side Under the Driver's Seat) B83 B84 Back Door Lower Wire and Floor No.1 Wire (Front Side Under Panel) B84 B85 B86 Door Lower Wire and Floor No.1 Wire (Front Side Ouarter Panel) B85 B86 Back Door Lower Wire and Floor No.1 Wire (Front Side Ouarter Panel) B87 B87 B88 Floor No.2 Wire and Front Door LH Wire (Front Door LH) B88 Floor No.1 Wire and Floor No.1 Wire (Rear Hear Suspension Support) B89 B90 Floor No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel) B89 B91 B89 Floor No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)	IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IU2 82 Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box) IV4 82 Dash Wire and Floor No.2 Wire (Right Kick Panel) IX1 IX2 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) Ig1 84 Dash Wire and Floor No.2 Wire (Right Side of Front Console) BA3 BA4 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) BB1 86 Floor No.1 Wire and Floor No.1 Wire (Near the Fuel Tank) BC3 BC4 86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BB2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BB4 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BB4 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 Pillar No.1 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR4 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR5 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Door LH Wire (Front Door LH Wire (Front Door LH Wire (Front Door CH Wire (Front Door SH Wire (Front Door SH Wire CH Suspension Support) BV1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)	IU2 82 Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box) IV4 82 Dash Wire and Floor No.2 Wire (Right Kick Panel) IX1 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) IY2 84 Dash Wire and Floor No.2 Wire (Right Side of Front Console) BA3 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) BB1 86 Floor No.1 Wire and Floor No.1 Wire (Near the Fuel Tank) BC3 86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BC4 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BH2 86 Pillar No.1 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 90 Floor No.2 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO3 90 Floor No.1 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BR1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door RH)	IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)			
IV4	IV4 82 Dash Wire and Floor No.2 Wire (Right Kick Panel) IX1 IX2 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) Ig1 84 Dash Wire and Floor No.2 Wire (Right Side of Front Console) BA3 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) BB1 86 Floor No.1 Wire and Floor No.1 Wire (Near the Fuel Tank) BC3 BC4 Sear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BB2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BB4 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BB4 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BB93 88 Pillar No.1 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BB94 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Floor No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)	IQ1	80	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)			
IX1 IX2 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	IX1 IX2 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	IU2	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IX2 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box) Ig1	IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
Ig1 84 Dash Wire and Floor No.2 Wire (Right Side of Front Console) BA3 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) BB1 86 Floor No.1 Wire and Floor No.2 Wire (Right Side of Center Pillar) BC3 86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BD2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO3 BO3 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 BP4 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side Of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.2 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)	Ig1 84	IX1	00	Leater report Donal late systics Wire and Fasing Wire (Pakind the Clave Don)			
BA3 BA4 BA5 BA6 BA6 BA7 BA8	BA3 BA4 BA4 BA5 BA6 BA6 BA6 BA6 BA7 BA7 BA8	IX2	82	Instrument Panel Integration white and Engine white (Benind the Glove Box)			
BA4 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) BB1 86 Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank) BC3 BC4 86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BD2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 BP4 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BA4 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar) BB1 86 Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank) BC3 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BC4 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 PO Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BC5 PO Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BC6 PO Floor No.2 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BC7 PIllar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BC8 BC9	lg1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)			
BB1 86 Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank) BC3 BC4 86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BD2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.2 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BB1 86 Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank) BC3 86 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BD2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 Ploor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BP4 BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BP5 BP6 BP7 BP7 BP8 BP8 BP8 BP8 BP8 BP8 BP8 BP8 BP9	BA3	0.0	Dear Dear LLIMire and Floor No. 4 Mire // off Cide of Conta- Dillon			
BC3 BC4 BC4 BC5 BC6 BC6 BC7 BC8 BC8 BC8 BC8 BC8 BC8 BC8 BC8 BC9	BC3 BC4 BC4 Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar) BD2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 BO2 BO3 BO3 BP3 BP4 BP4 BP4 BP4 BP5 BP6 BP7 BP8 BP8 BP8 BP8 BP8 BP8 BP8 BP8 BP9 BP8 BP9 BP9 BP9 BP9 BP9 BP9 BP9 BP0	BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)			
BC4 BC4 BC4 BC5 BC6 BC6 BC7 BC7 BC8	BC4	BB1	86	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)			
BD2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 Ploor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BD2 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 Pillar No.1 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 BP4 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	BC3	00	Dear Dear DI I Wire and Elect No O Wire (Dight Cide of Contan Billion)			
BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BH2 86 Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door) BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			
BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BL1 88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember) BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)	BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BM2 BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 BP4 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BM2 BM3 Ploor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 BP4 BP4 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 BB3 BC4 BC5 BC6 BC7 BC8 BC8 BC8 BC8 BC8 BC8 BC8 BC8 BC9	BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BM3 90 Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat) BO2 BO3 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)	BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
B02 B03 Pillar No.1 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 BP4 BR5 BR6 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR7 BR8 BR8 BR8 BR8 BR8 BR8 BR9	BO2 BO3 Ploor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 BP4 BQ2 BO3 BR4 BR5 BR6 BR6 BR7 BR7 BR8 BR8 BR8 BR8 BR8 BR8 BR9	BM2	00	Floor No. 4 Wire and Front Cont. I I I Wire (Front Cide Under the Driver's Cont.)			
BO3 90 Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat) BP3 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BO3 BP3 BP4 BB4 BB4 BB4 BB4 BB4 BB4 BB4 BB4 BB4	BM3	90	Floor No. 1 Write and Florit Seat Lm Write (Florit Side Onder the Driver's Seat)			
BP3 BP4 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 BR4 BR5 BR6 BR6 BR7 BR7 BR8 BR8 BR8 BR8 BR8 BR8 BR8 BR9 BR8 BR9	BP3 BP4 BR4 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 BR5 BR6 BR7 BR7 BR8 BR8 BR8 BR8 BR8 BR8 BR8 BR9	BO2	00	Floor No. 2 Wire and Front Soot BH Wire (Front Side Linder the Front Beasanger's Soot)			
BP4 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BP4 88 Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)	BO3	90	Floor No.2 write and Florit Seat Kin write (Florit Side Orider the Florit Passenger's Seat)			
BP4 BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BQ2 88 Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel) BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)	BP3	00	Billar No. 1 Wire and Floor No. 1 Wire (Left Boar Side Quarter Bone)			
BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BR1 88 Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof) BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	BP4	00	Filial No. 1 Wile and Floor No. 1 Wile (Left Real Side Quarter Parier)			
BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BS1 88 Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH) BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BT1 88 Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH) BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	BR1	88	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)			
BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BU1 88 Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support) BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	BS1	88				
BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)	BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support) BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)			
	BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)			
BW1 88 Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	, •	BV1	88	Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)			
	BX1 88 Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)	BW1	88	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)			
BX1 88 Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)	· · · · · · · · · · · · · · · · · · ·	BX1	88	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)			

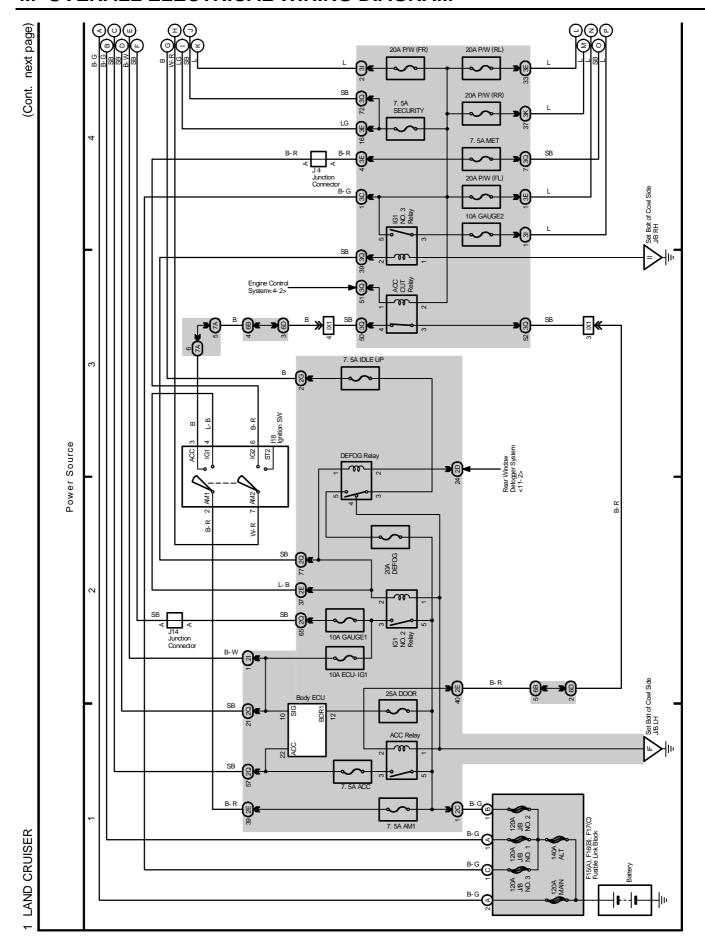
: Ground Points

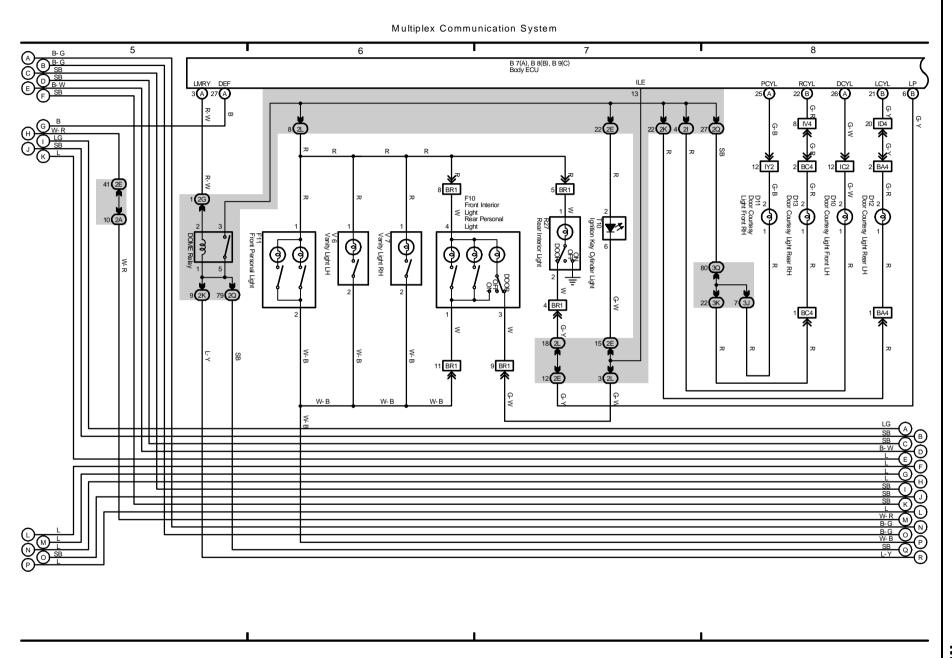
Code	See Page	Ground Points Location			
EA	70	Front Dight Cide of Fonder Anna			
EB	76	Front Right Side of Fender Apron			
EC	76	Rear Bank of Right Cylinder Head			
ED	76	Rear Bank of Left Cylinder Head			
EE	76	Front Left Side of Fender Apron			
IF	70	Cat Dalt of Court Side 1/D LLI			
IG	78	Set Bolt of Cowl Side J/B LH			
IH	78	Set Bolt of Cowl Side J/B RH			
II	76	Set Bolt of Cow Side 3/B Kn			
BJ	86	Under the Driver's Seat			
BK	86	Front Side Under the Front Passenger's Seat			
BL	86	Rear Side Under the Front Passenger's Seat			
BM	86	Left Rear Side Quarter Panel			

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	76	Engine Room Main Wire	B6	88	Floor No.1 Wire
E5	76	Engine Room No.2 Wire	B7	88	Roof No.1 Wire
E9	76	Transmission Wire	B8	88	Front Door RH Wire
E10	76	Engine Wire	B9	88	Floor No.2 Wire
E14	76	Engine Room No.2 Wire	B11	88	Floor No.1 Wire
E15	76	Engine Room Main Wire	B14	88	Floor No.2 Wire
12	80	Engine Room No.2 Wire	B15	88	Back Door Upper Wire
19	80	Column Wire	B16	88	Floor No.3 Wire
I18	80	Instrument Panel Wire	B26	88	Back Door Lower Wire
B2	88	Front Door LH Wire	B27	90	Front Seat LH Wire
B4	88	Floor No.1 Wire	B28	90	Front Seat RH Wire

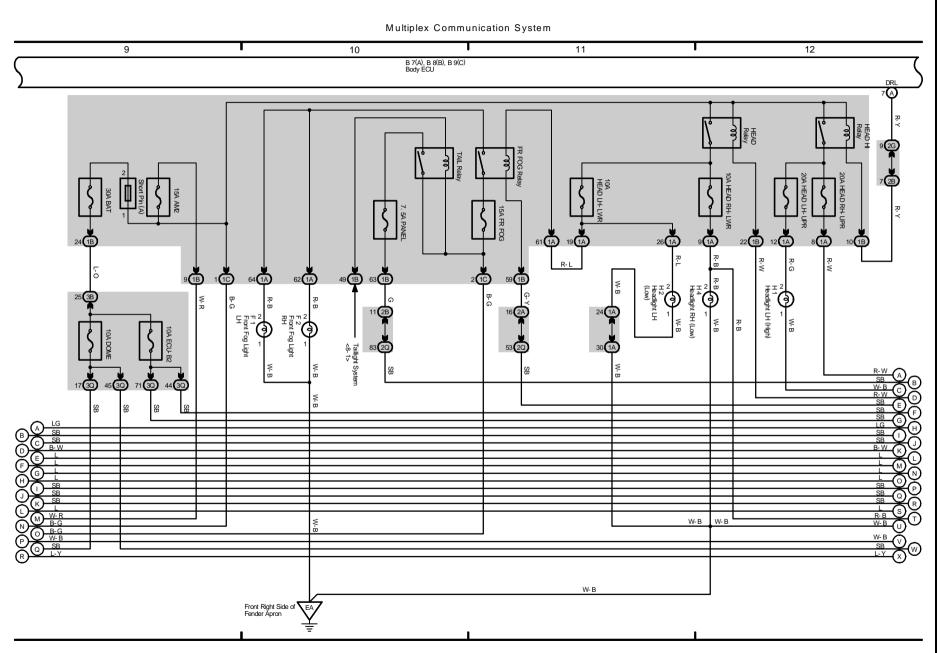
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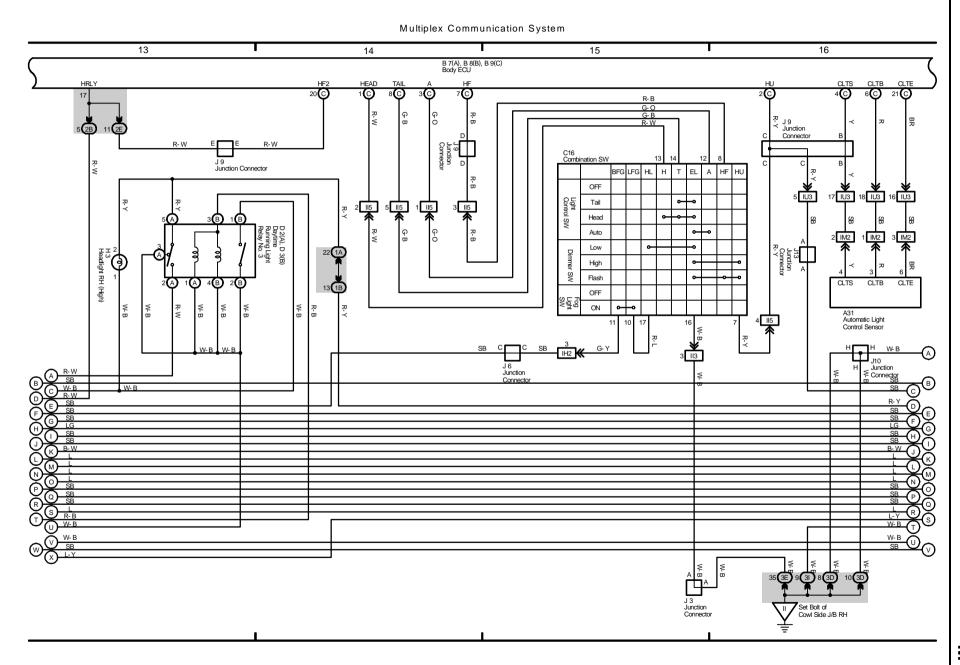




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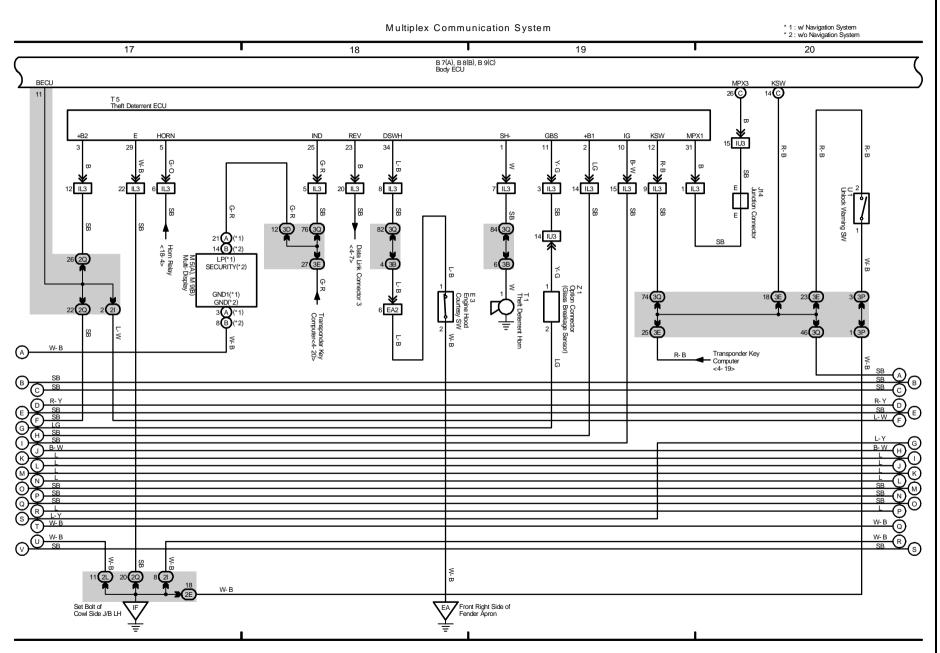
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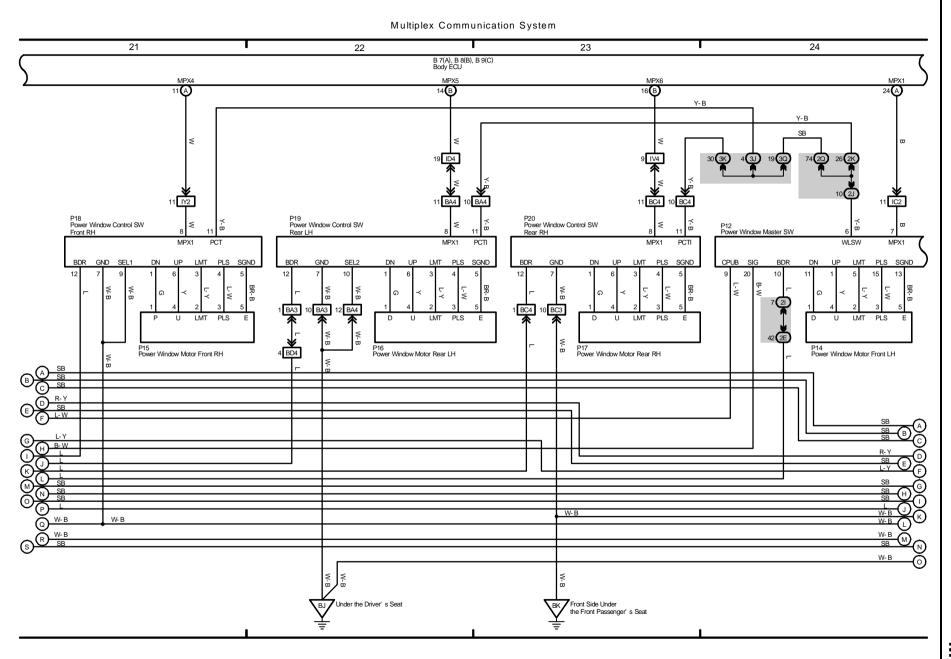




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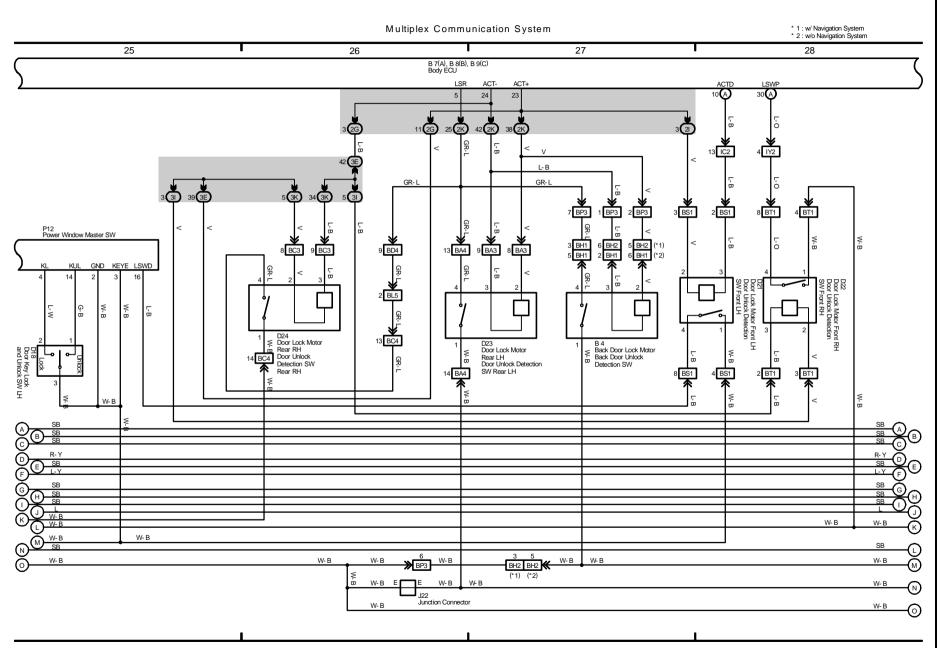


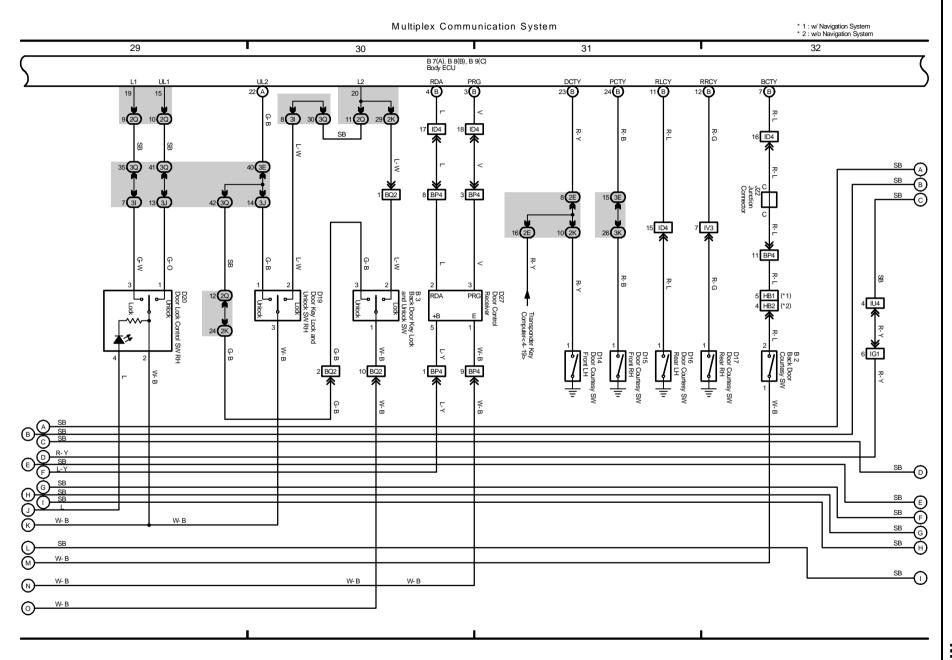
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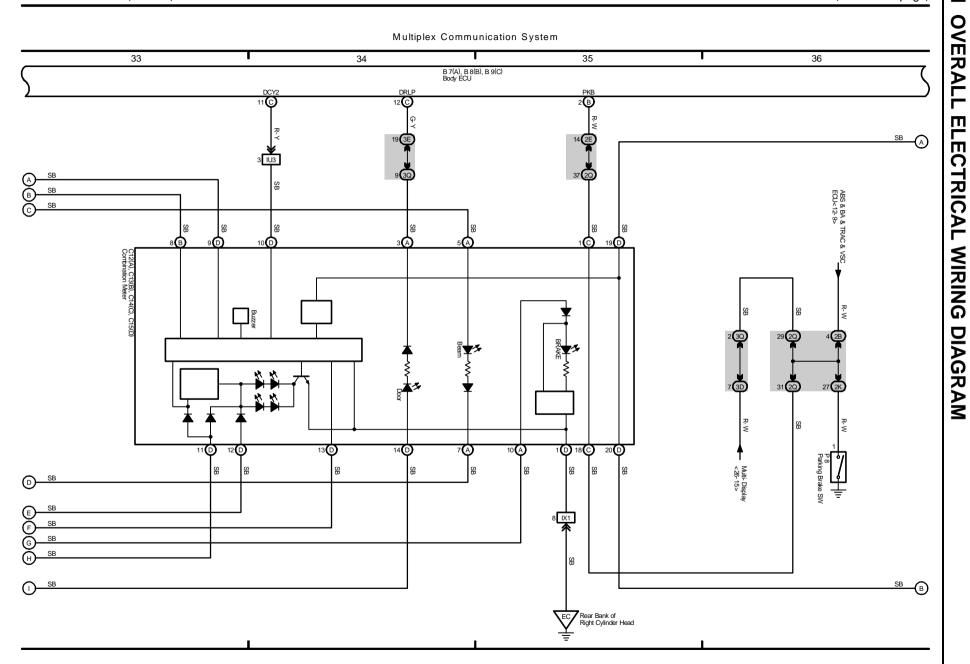
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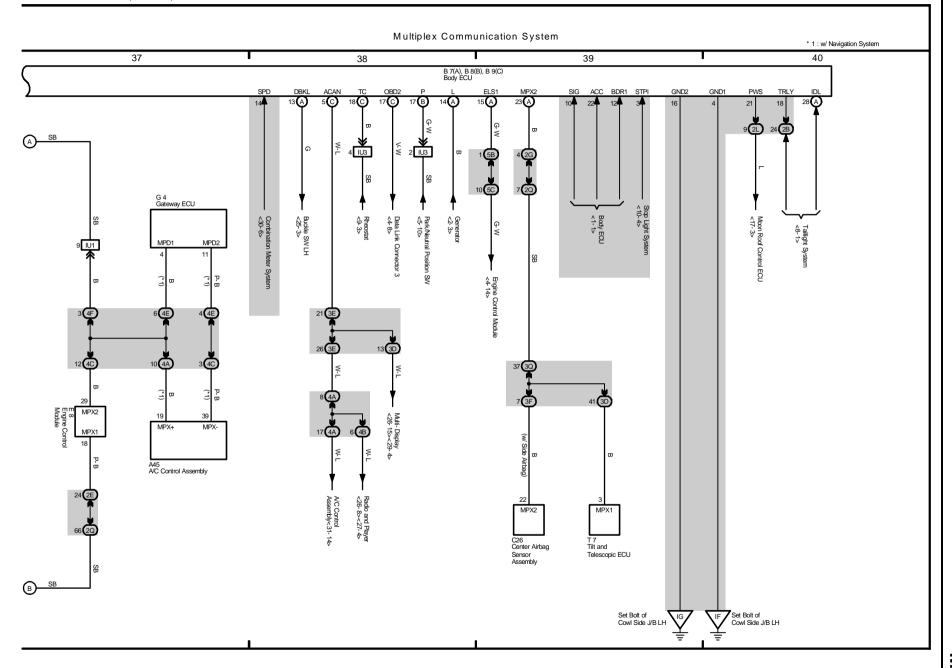
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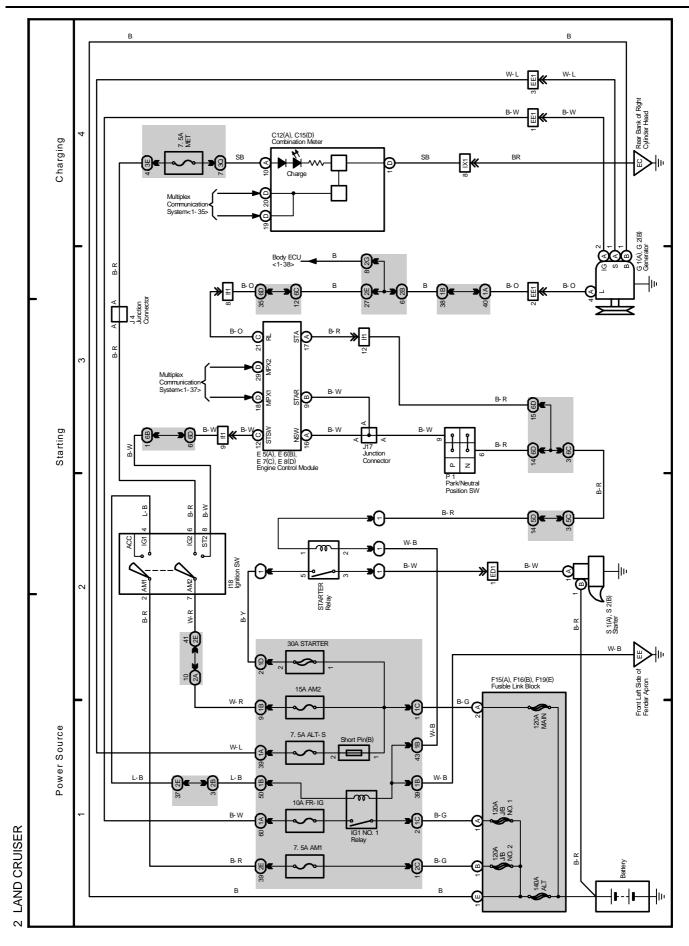
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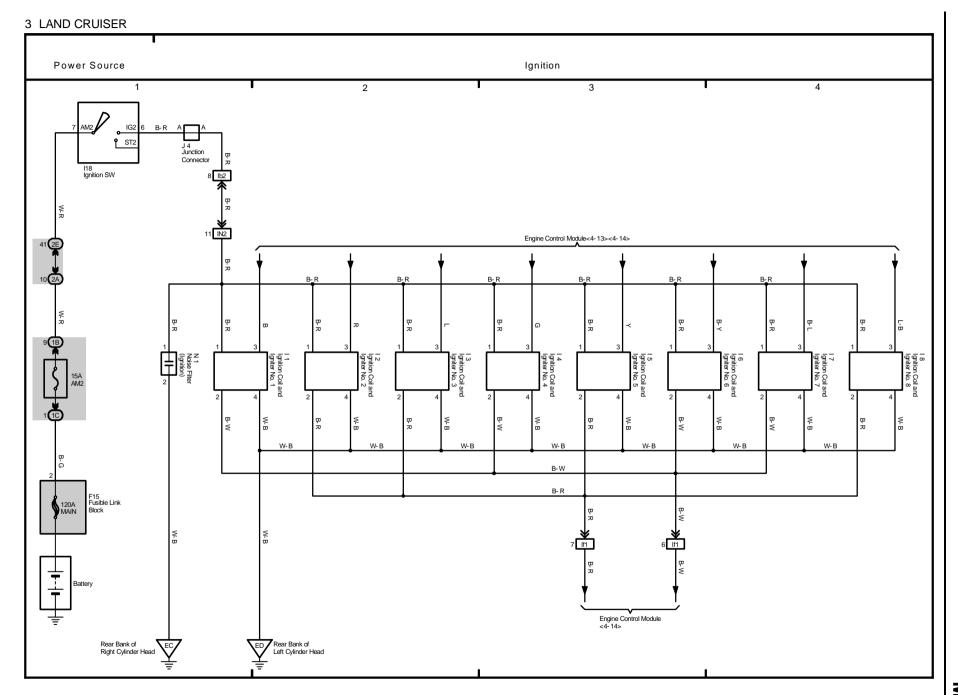


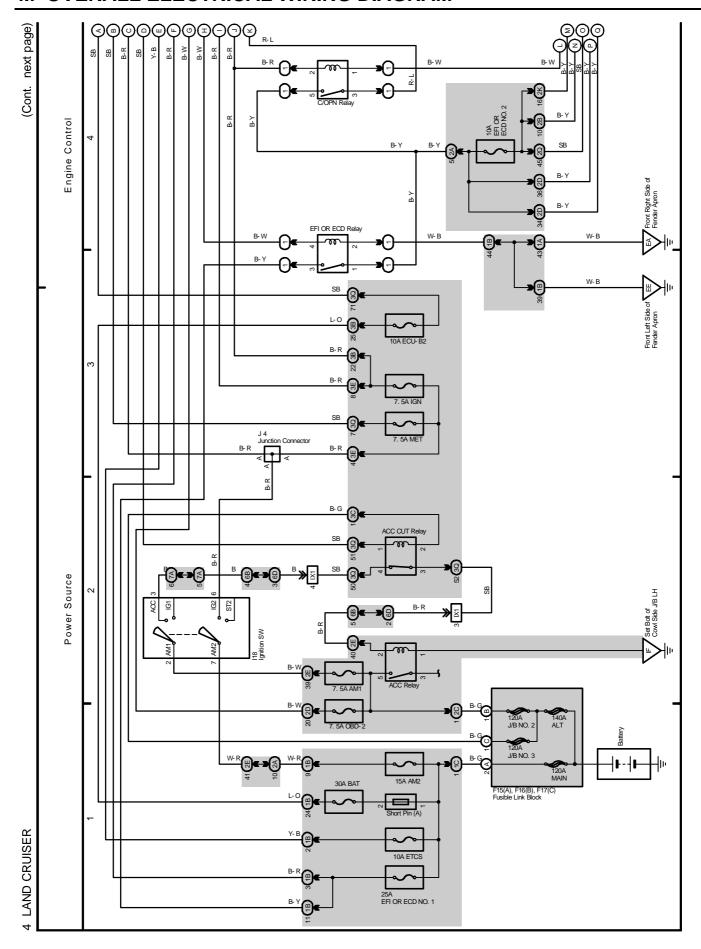


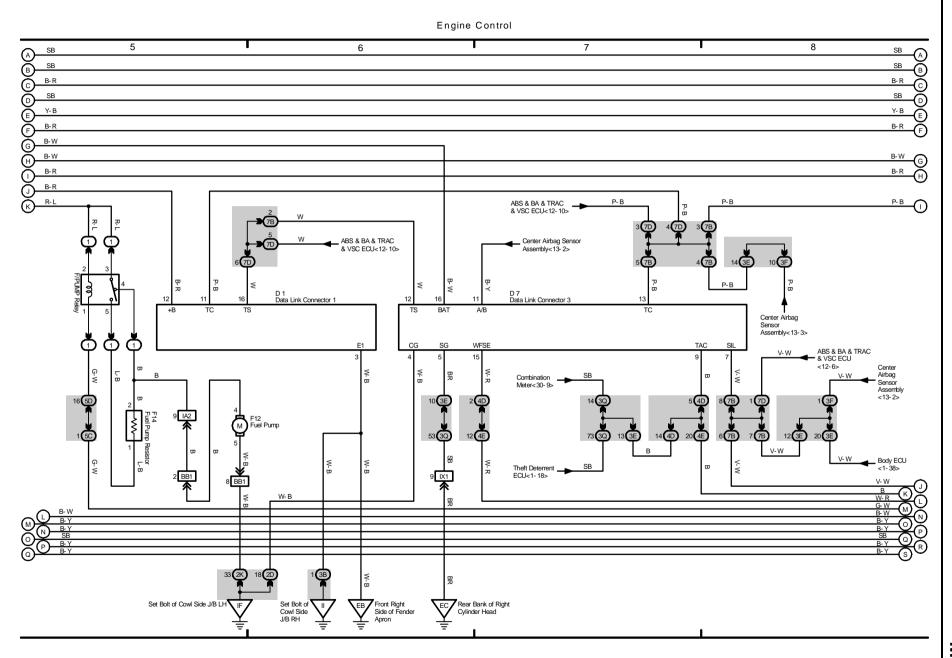




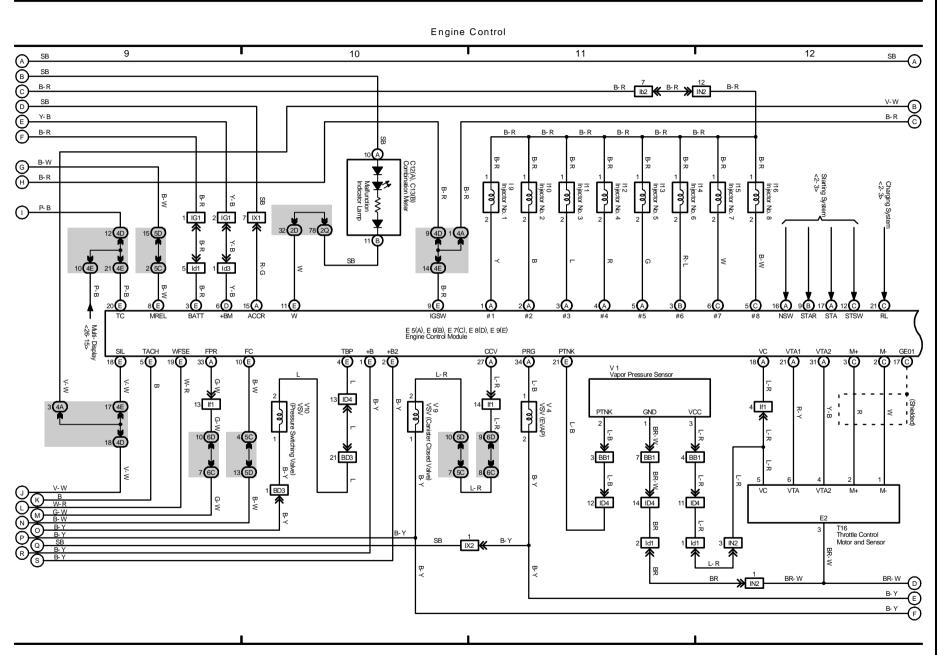


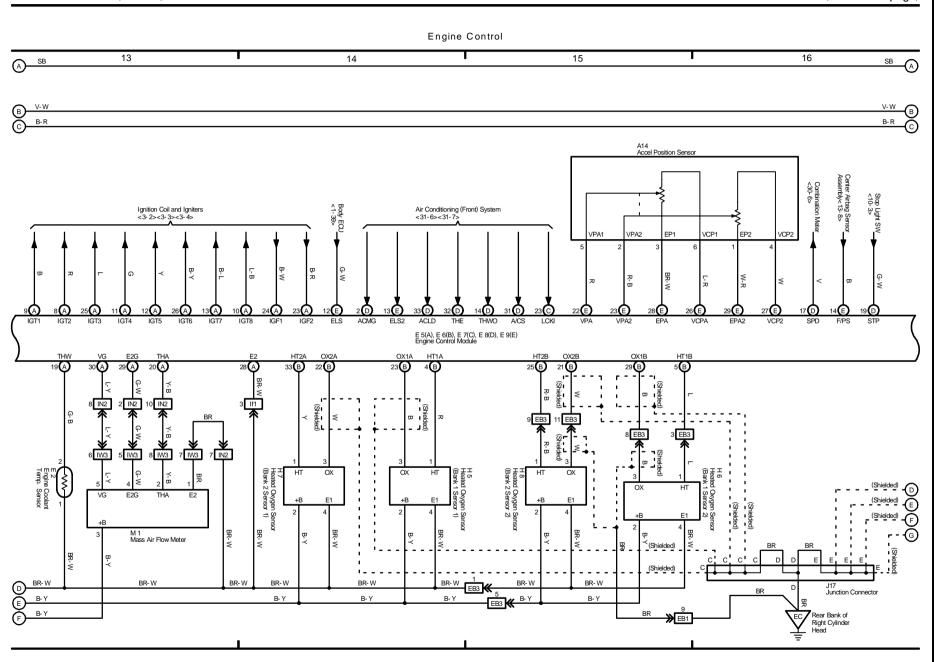


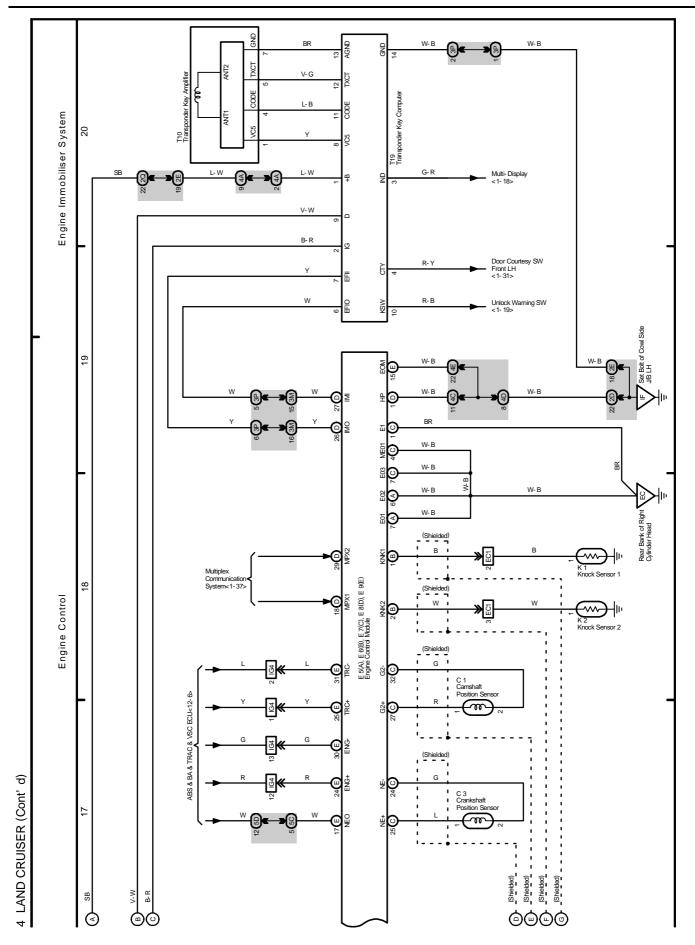




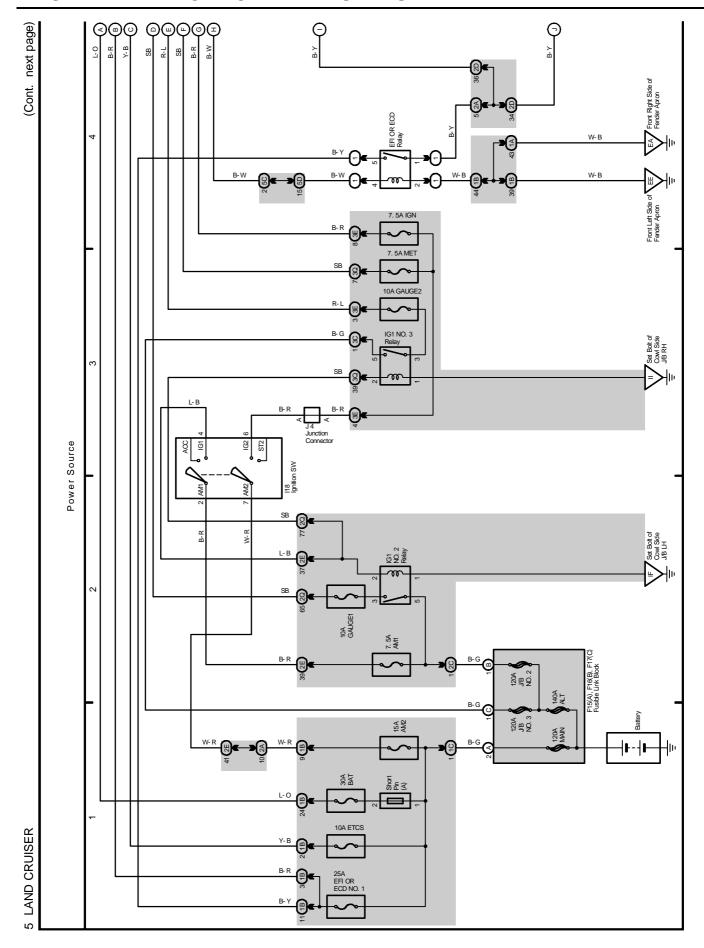
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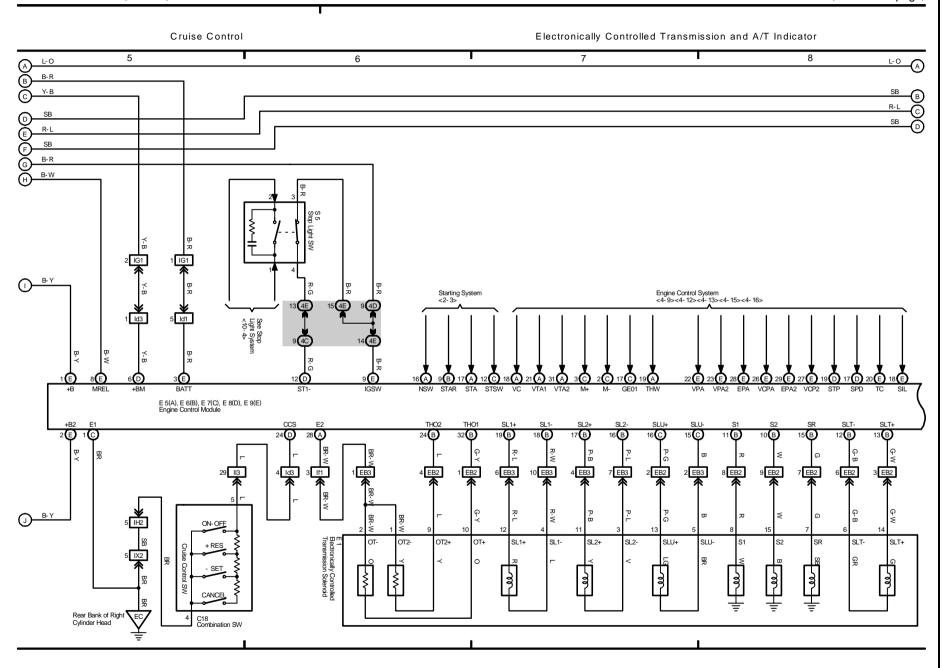


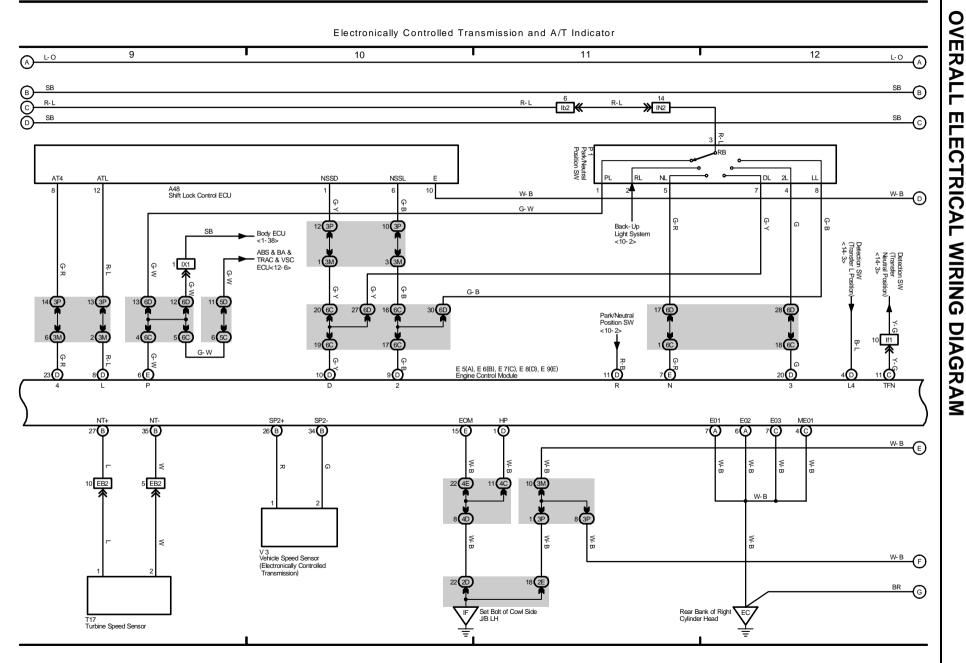


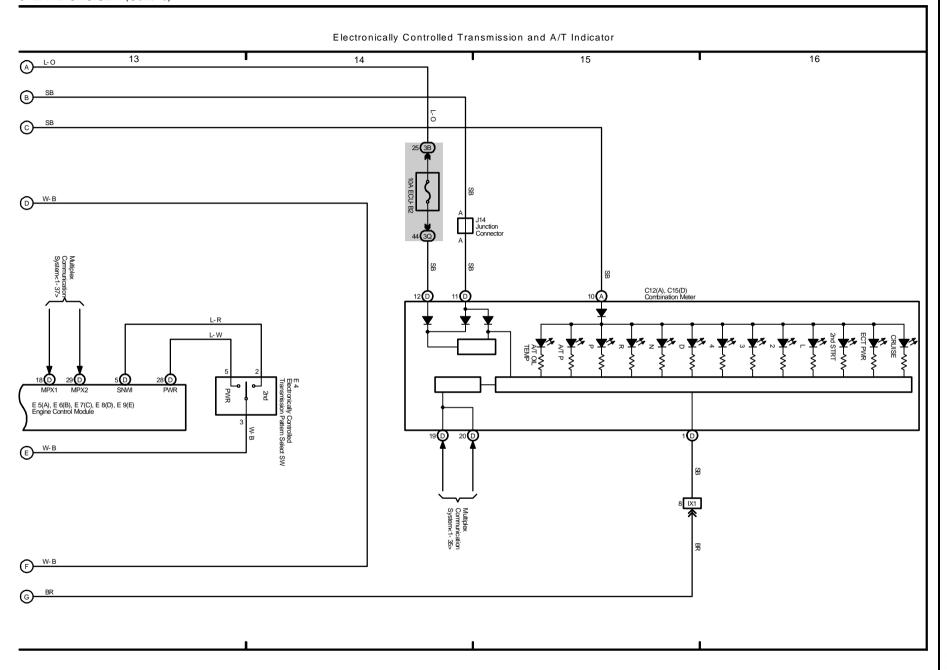


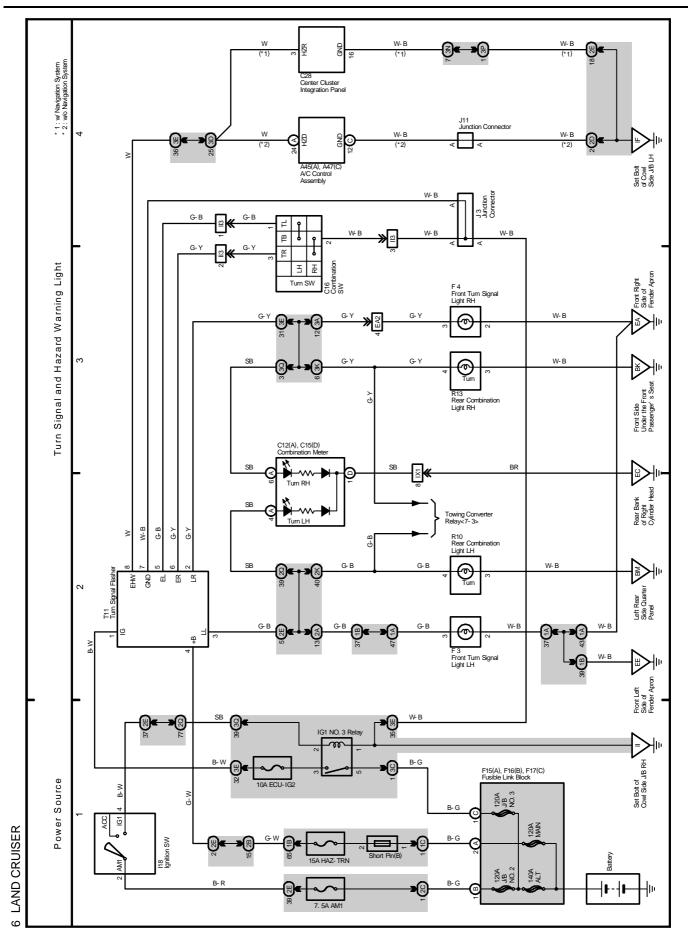
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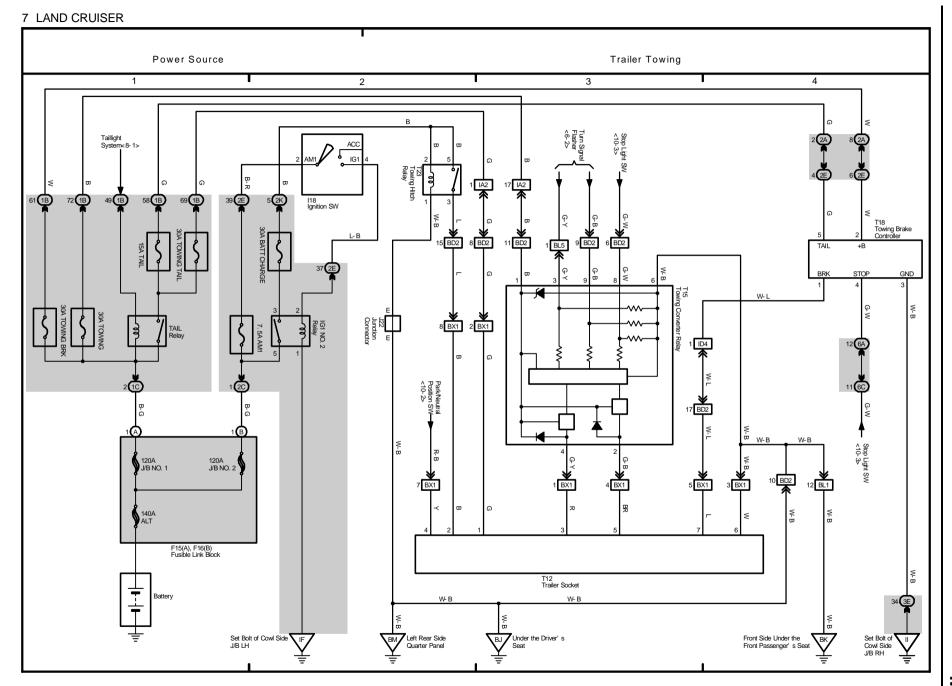


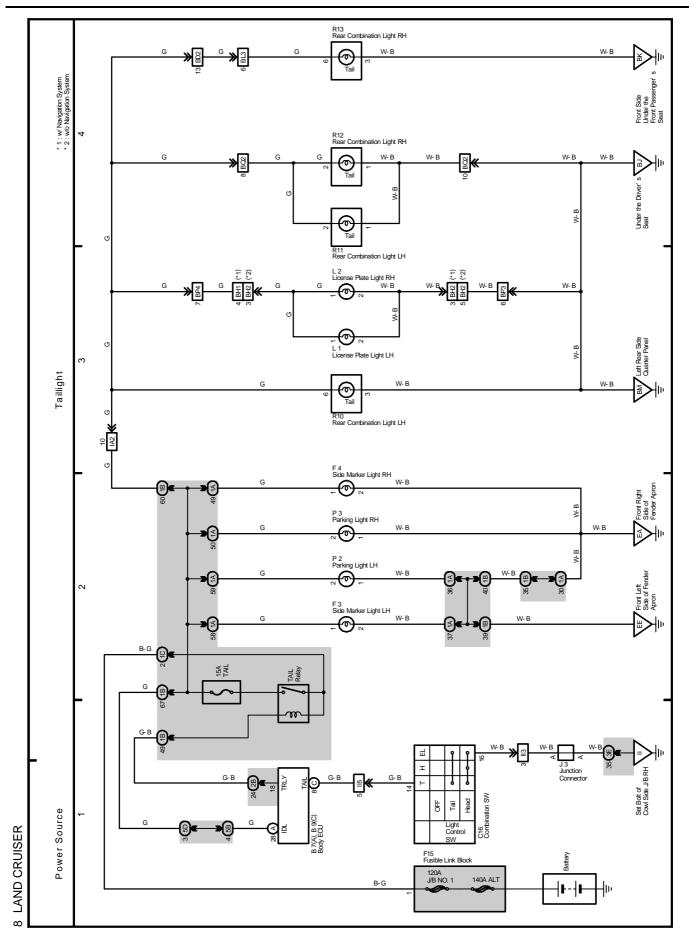




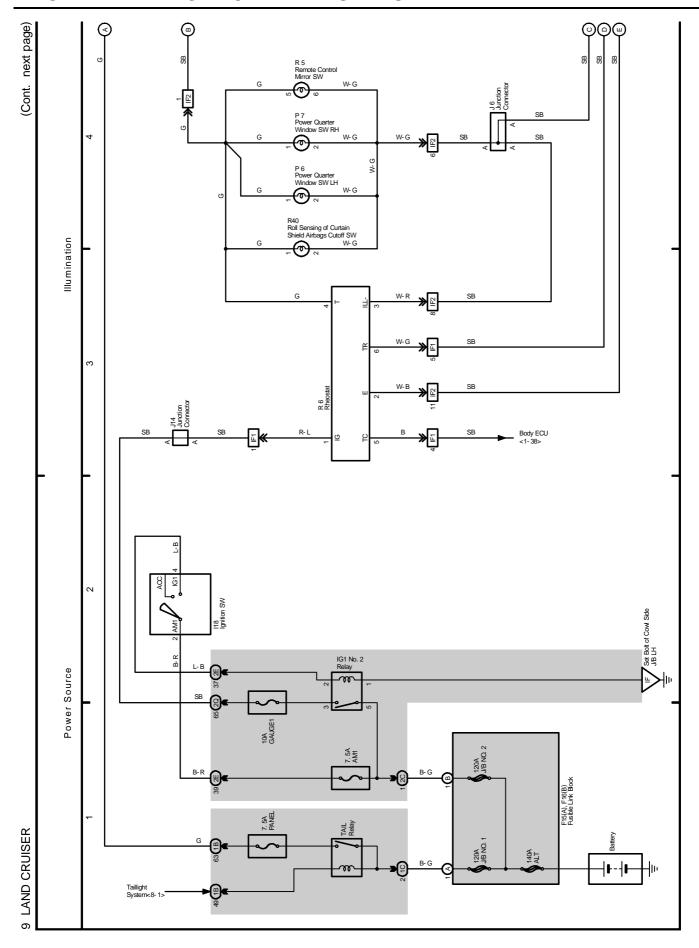


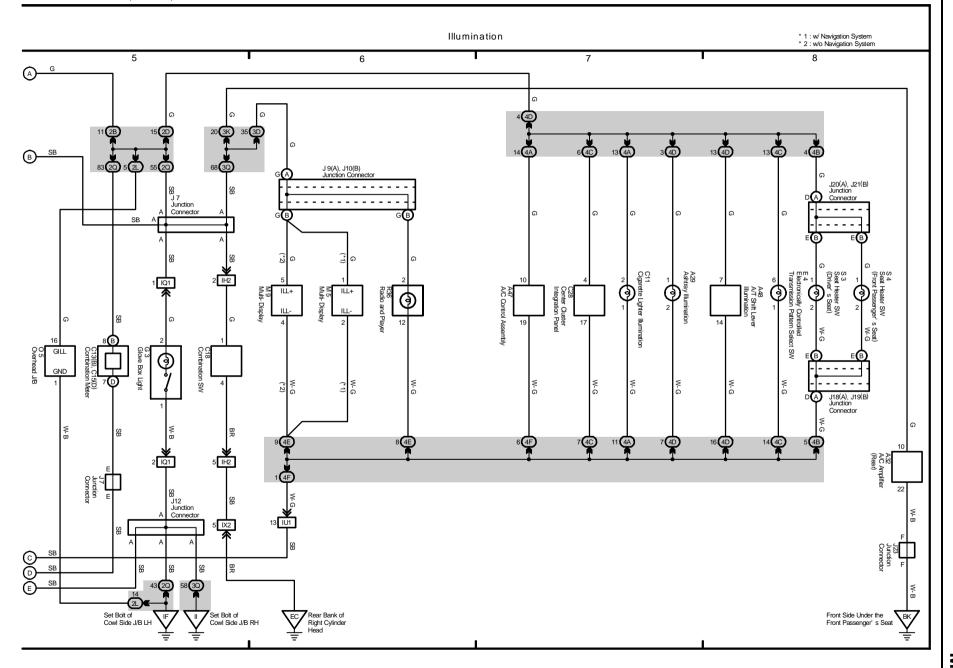


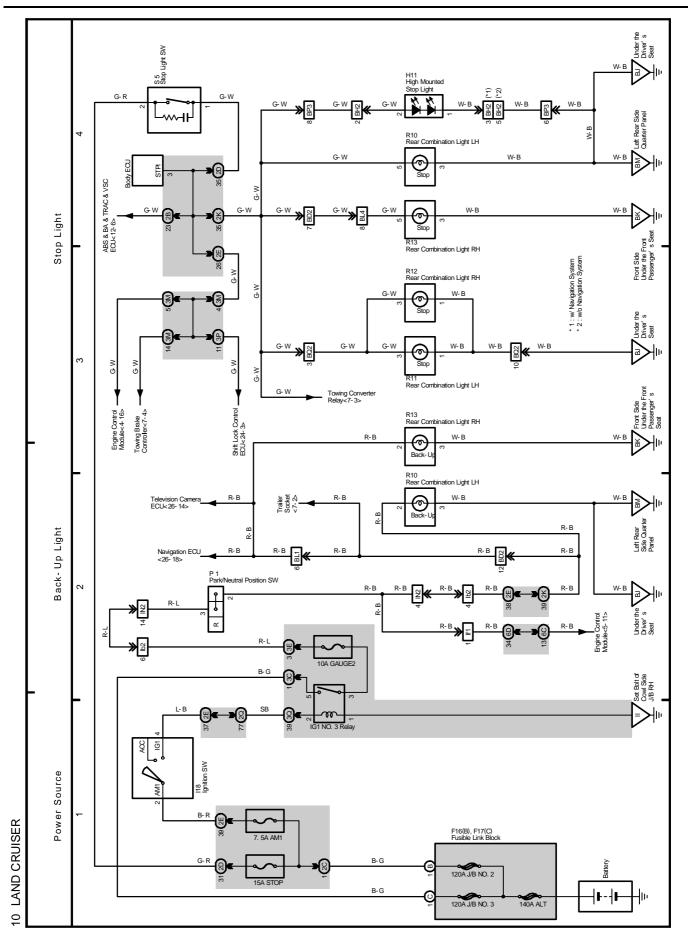


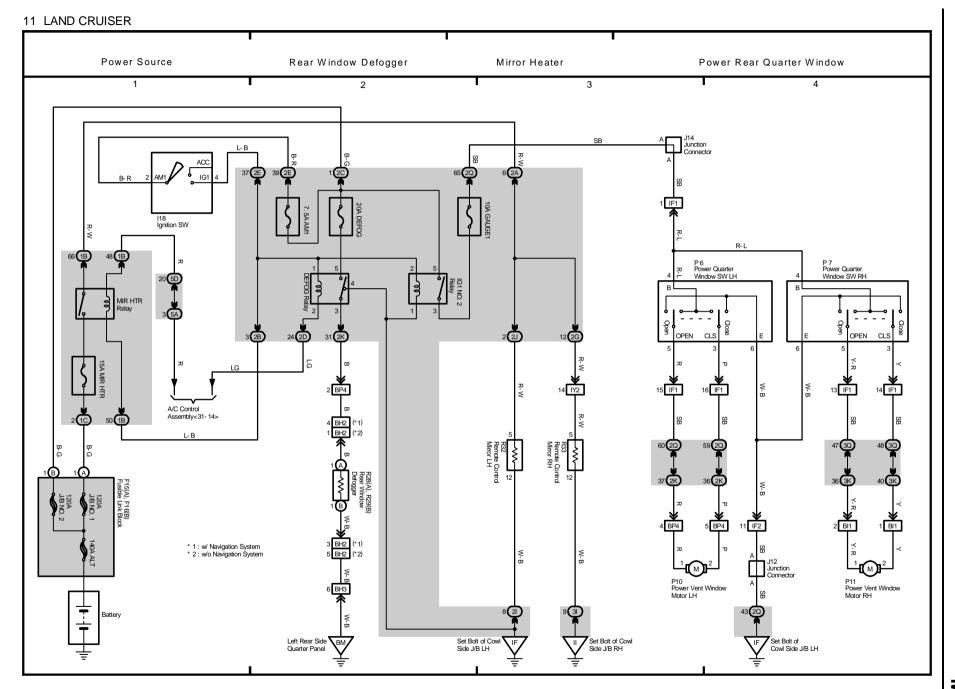


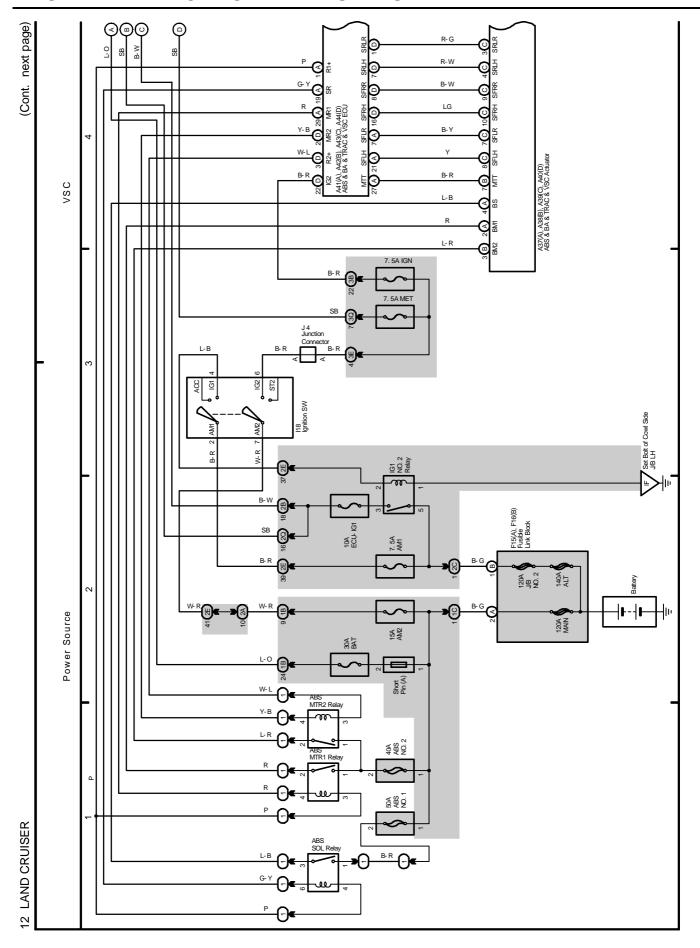
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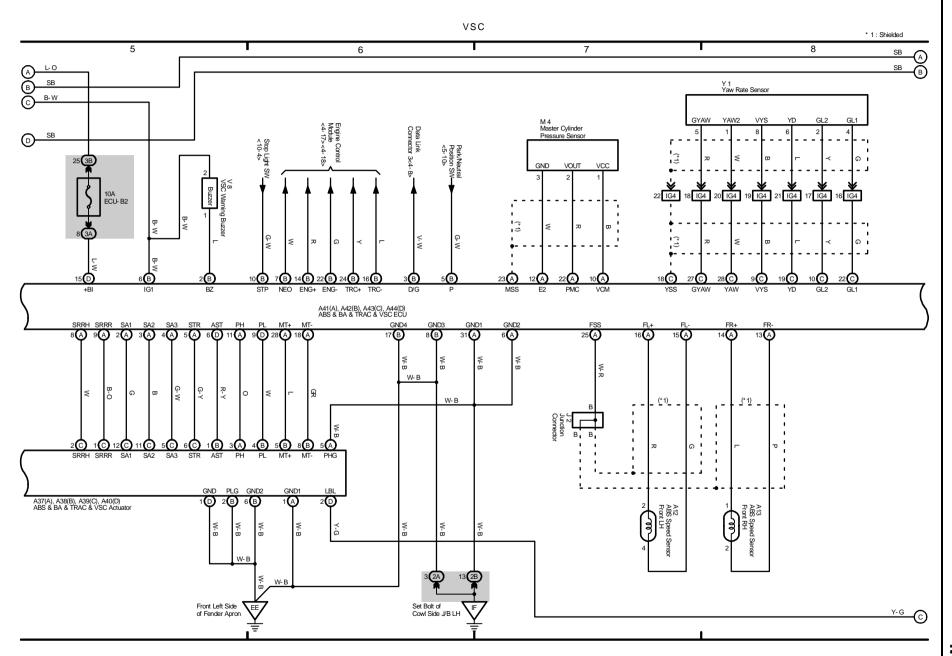


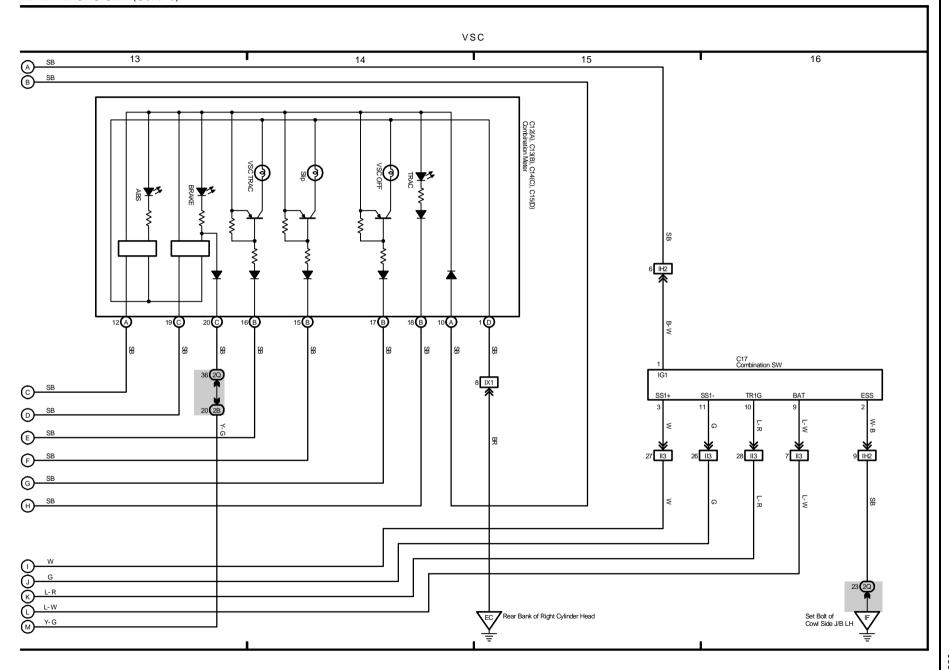


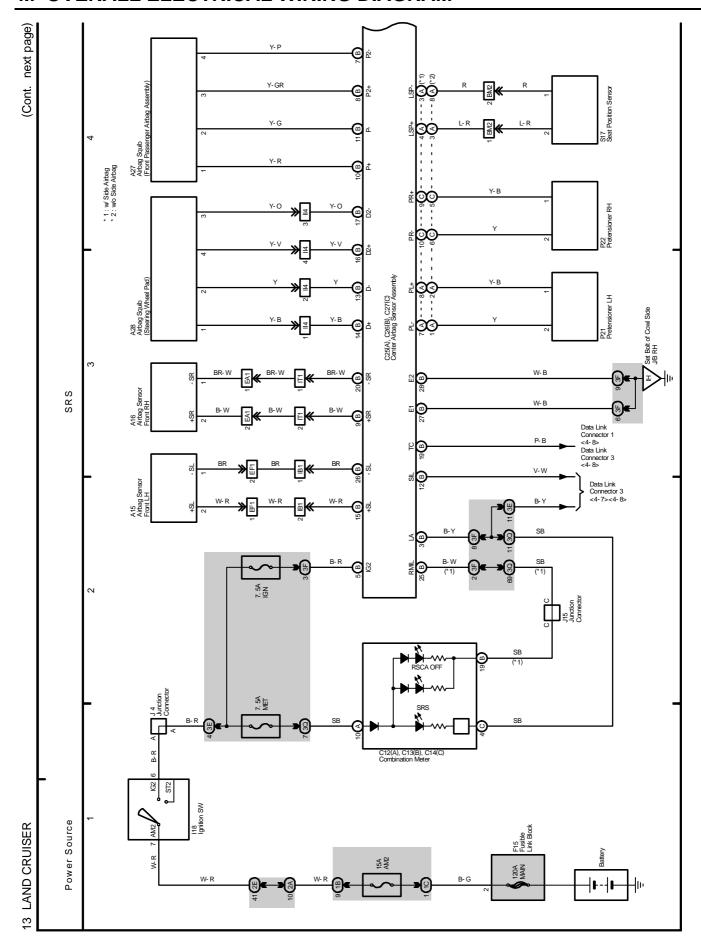


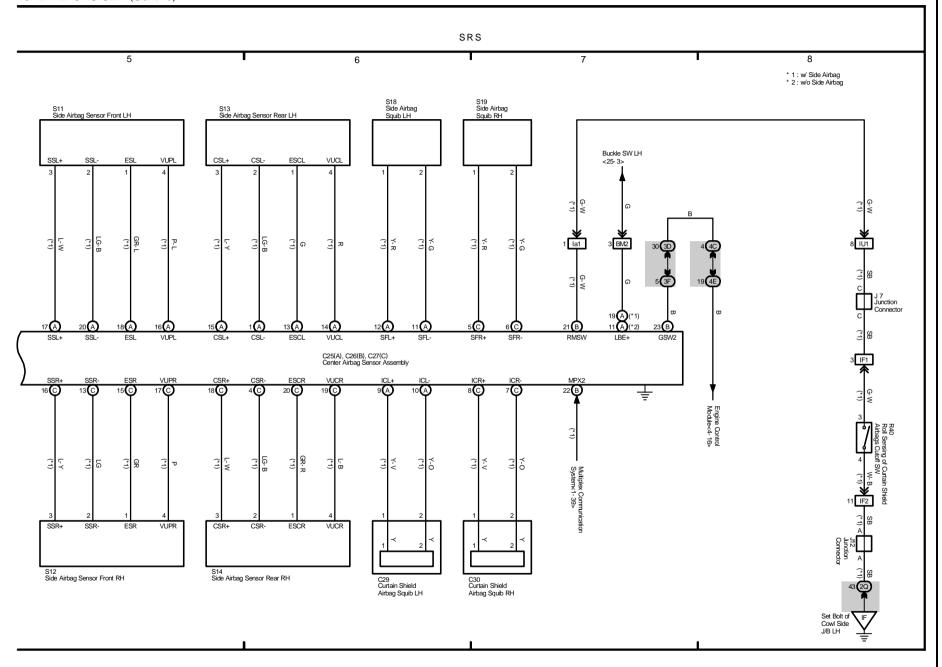


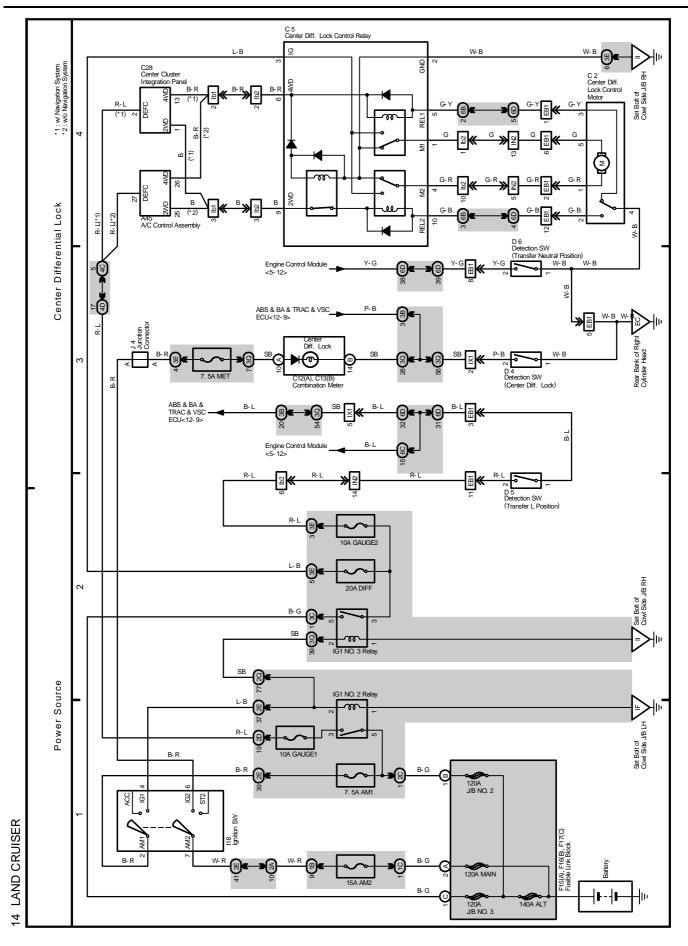


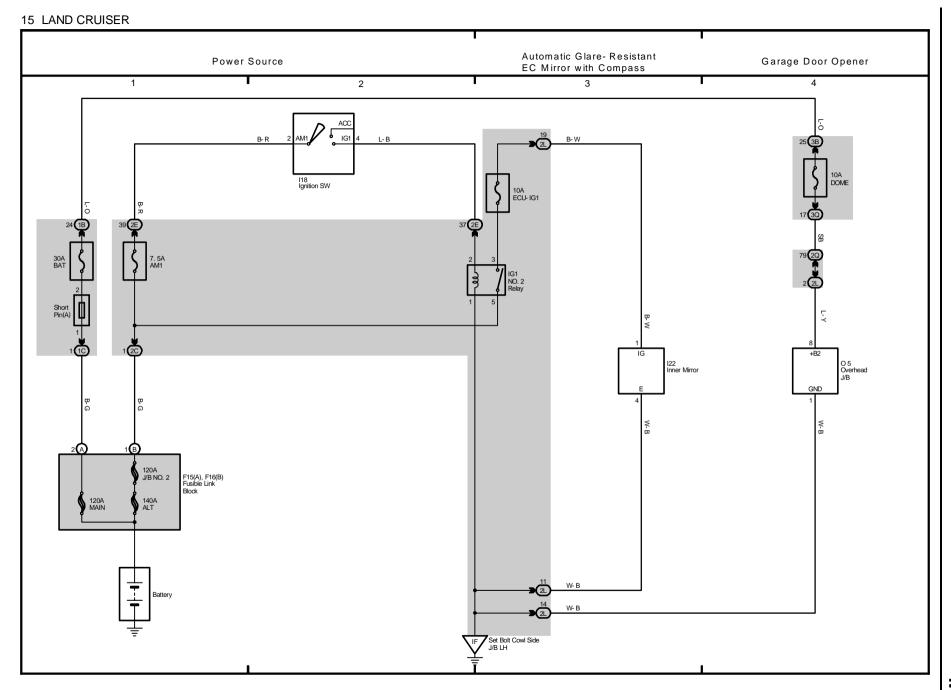


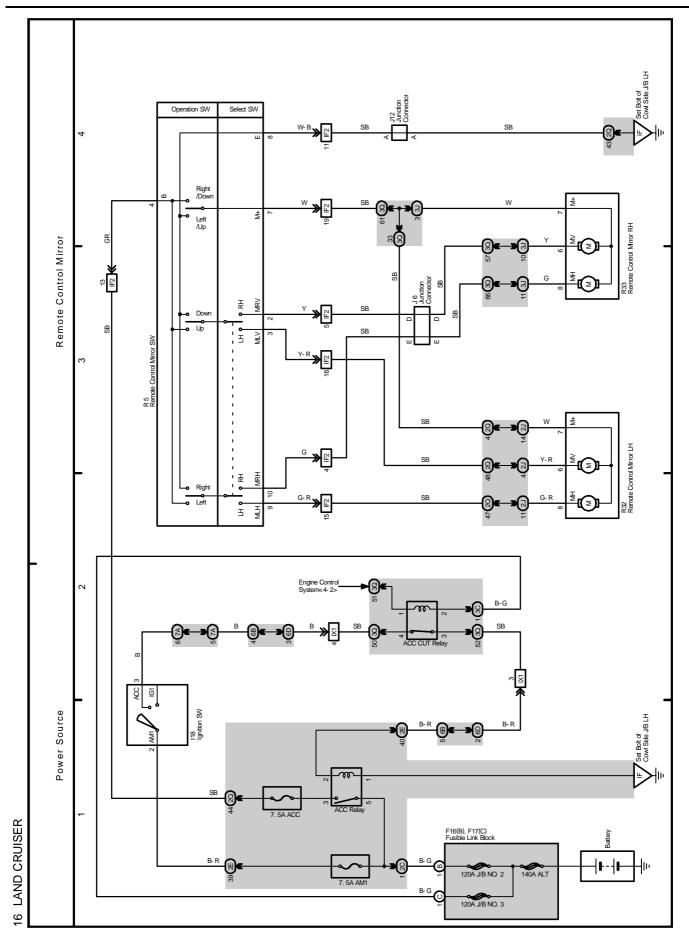


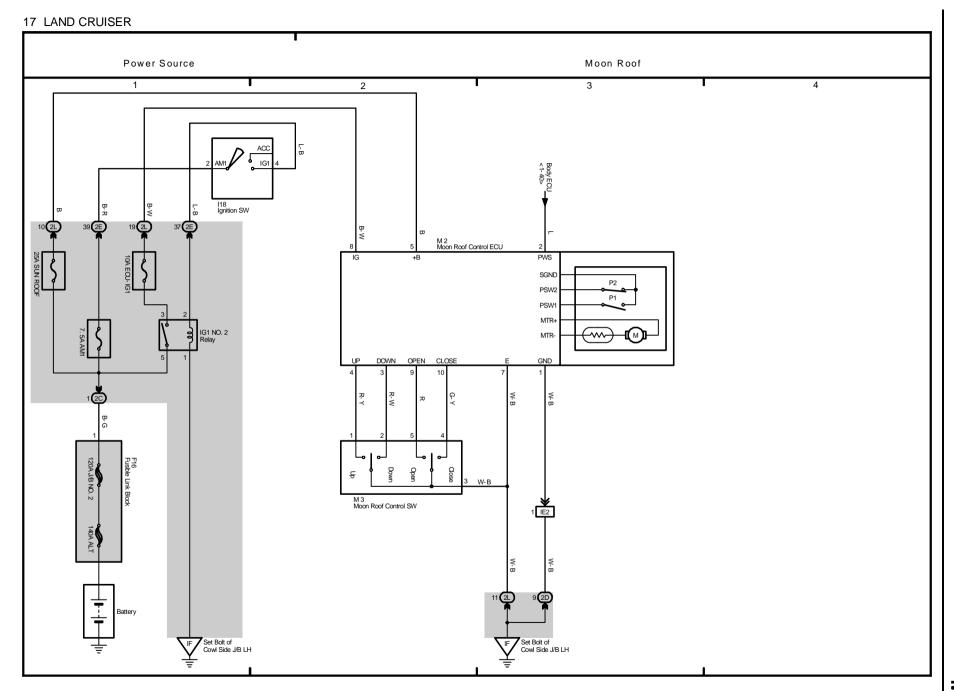


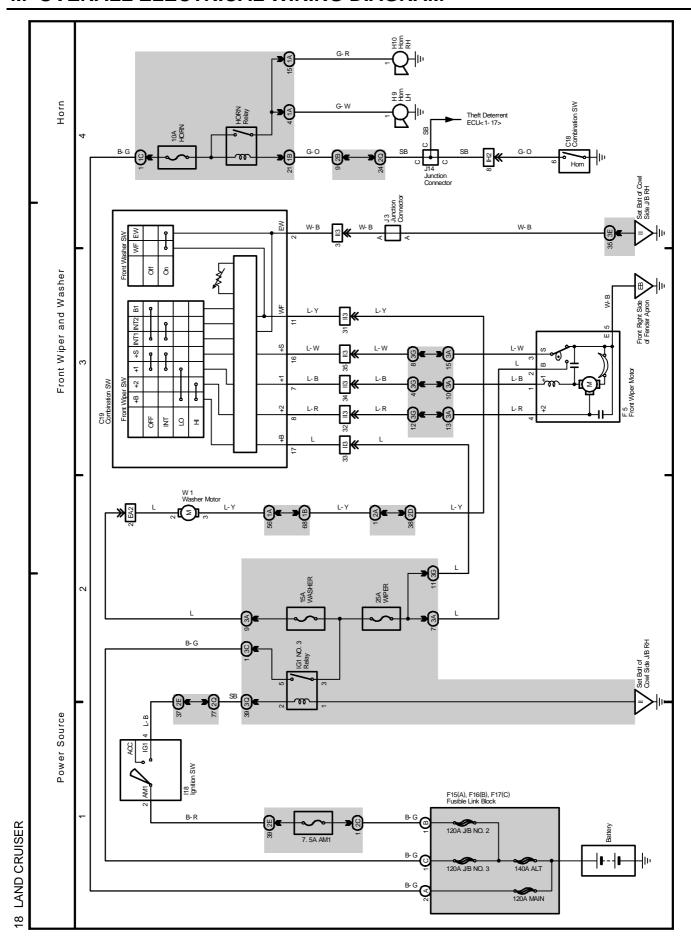


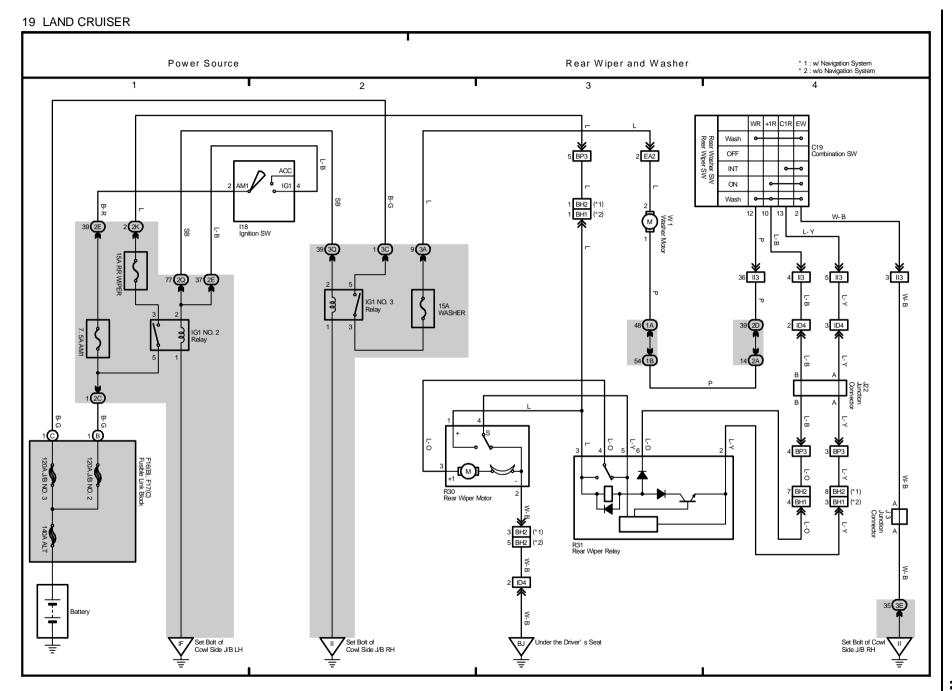


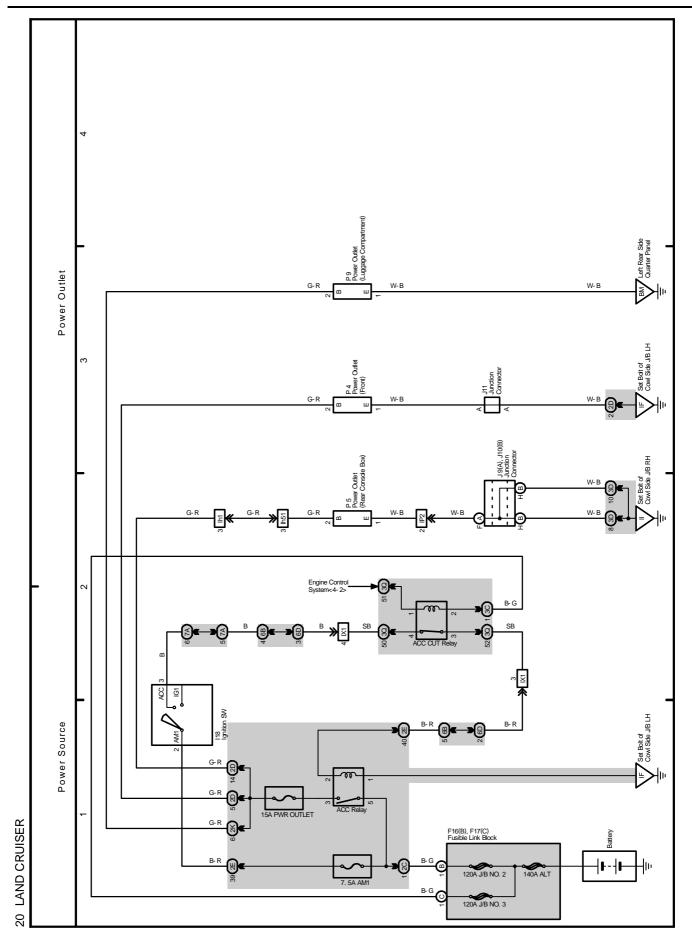


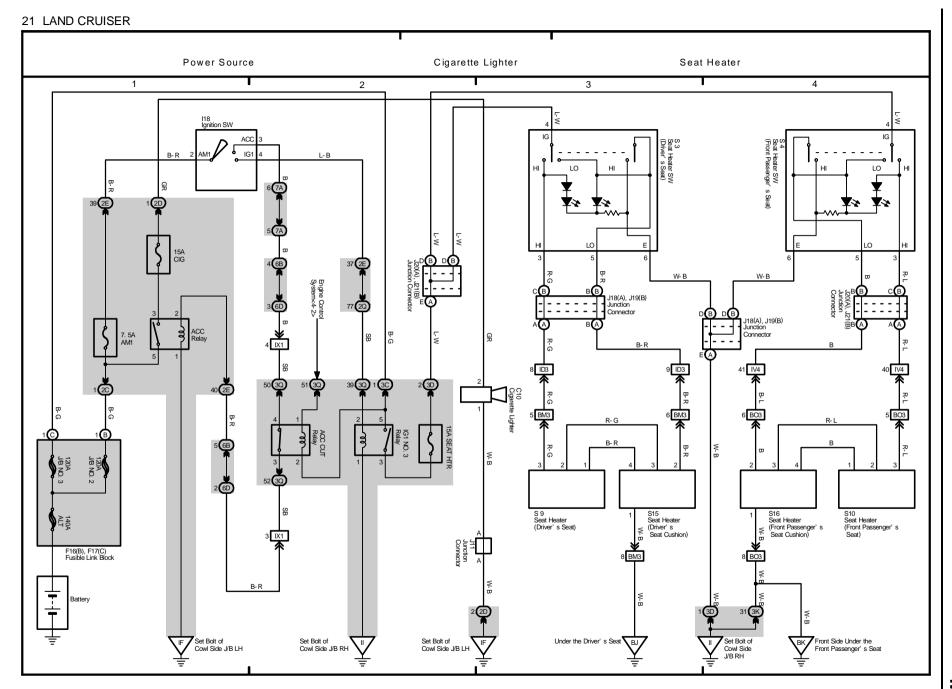


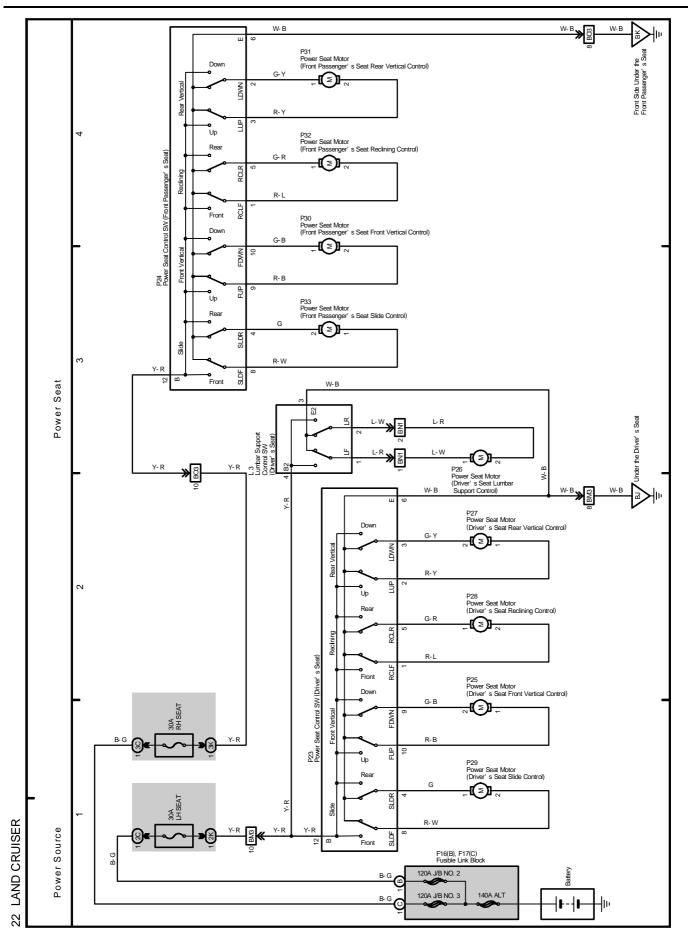


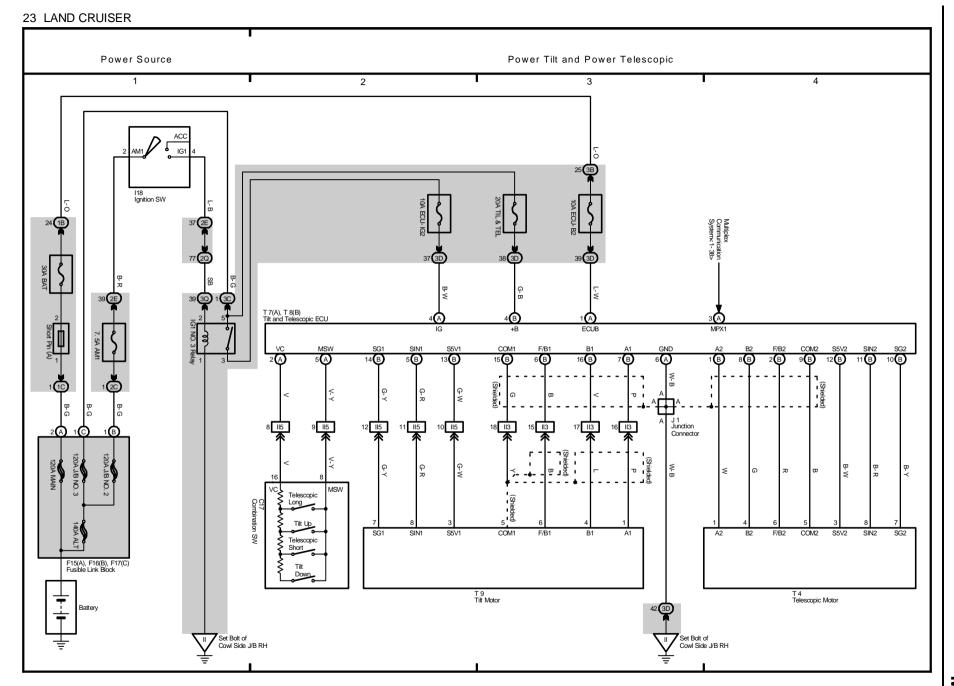


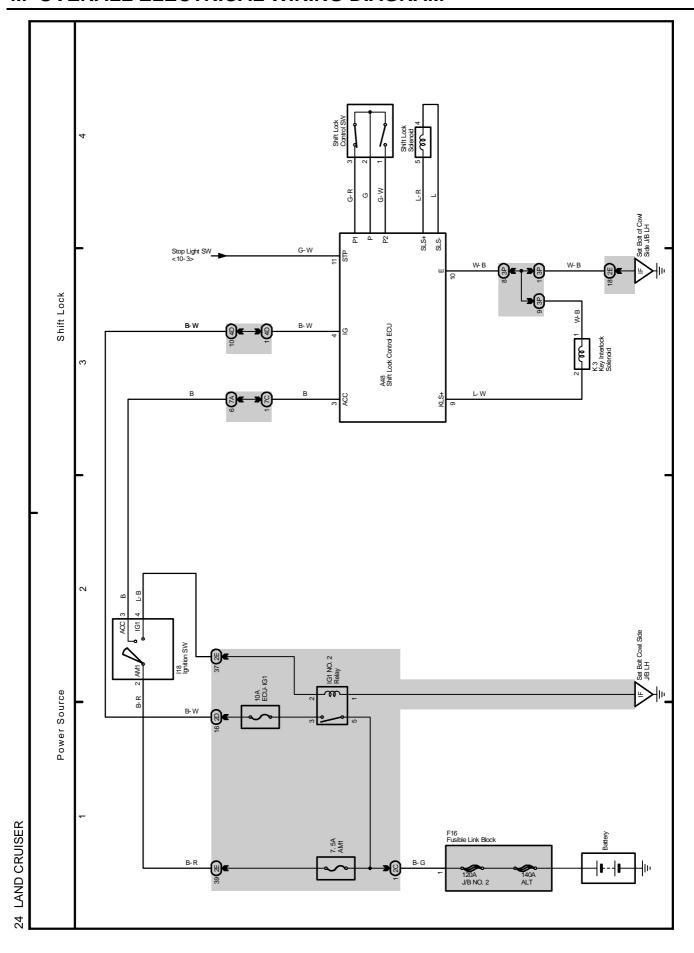


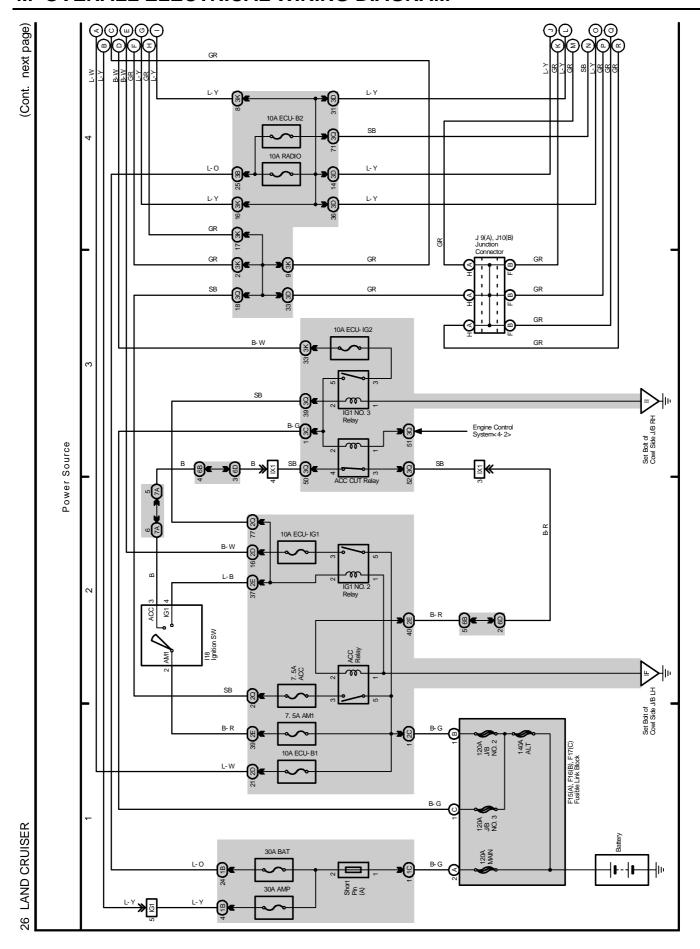


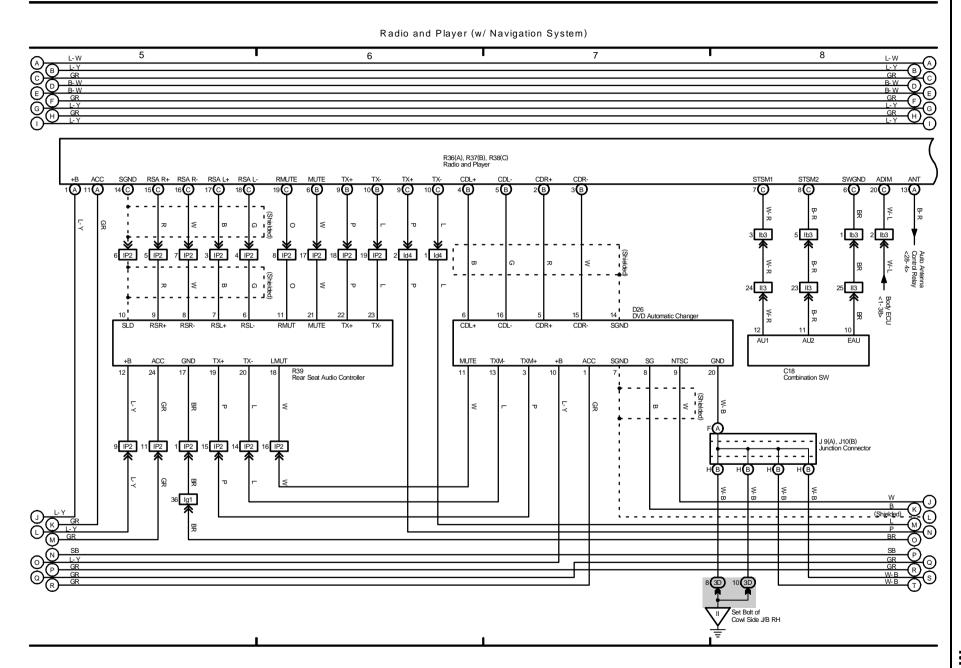


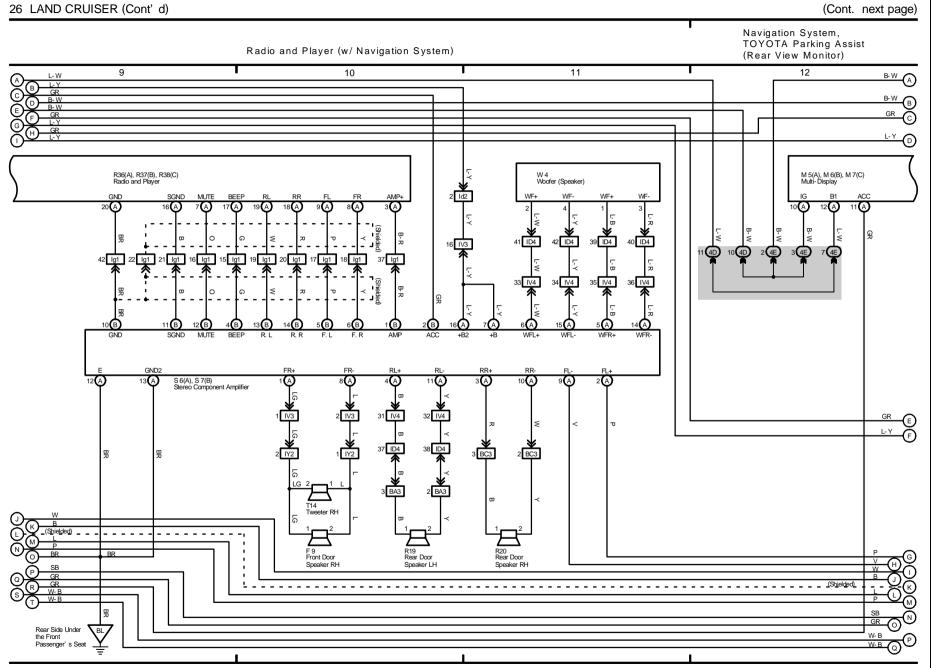




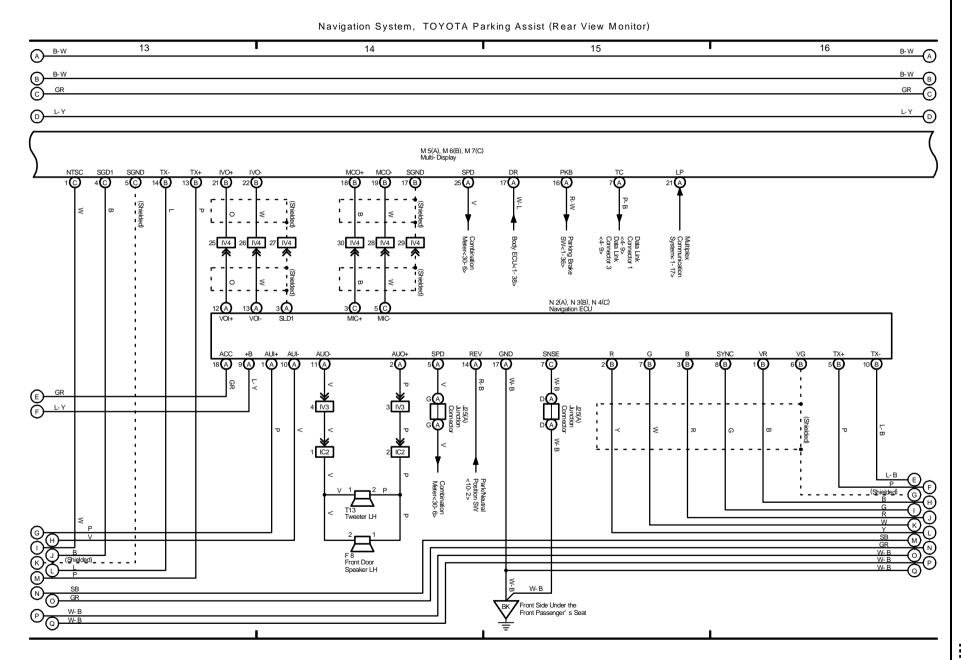




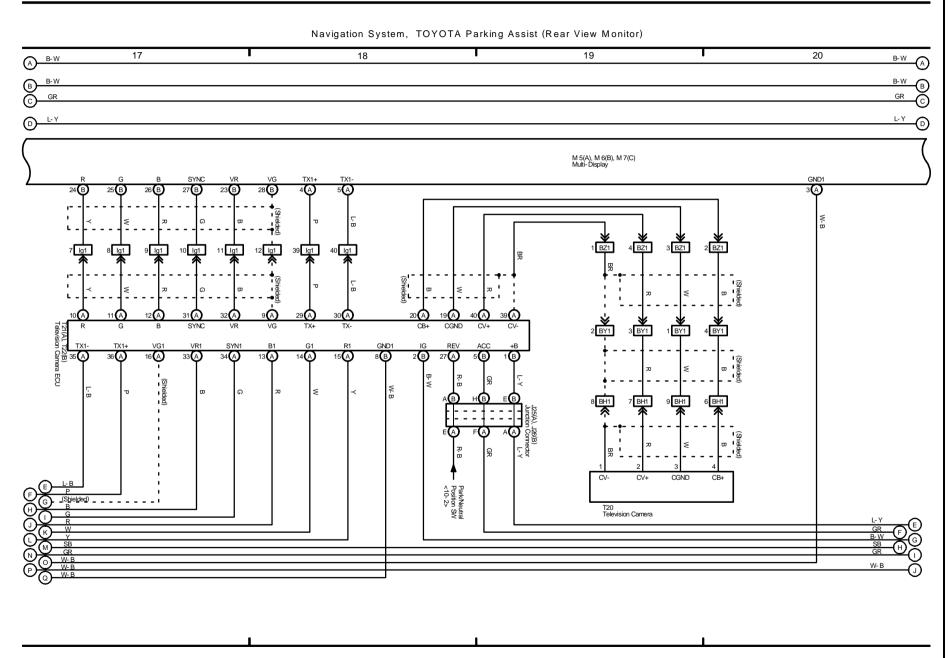


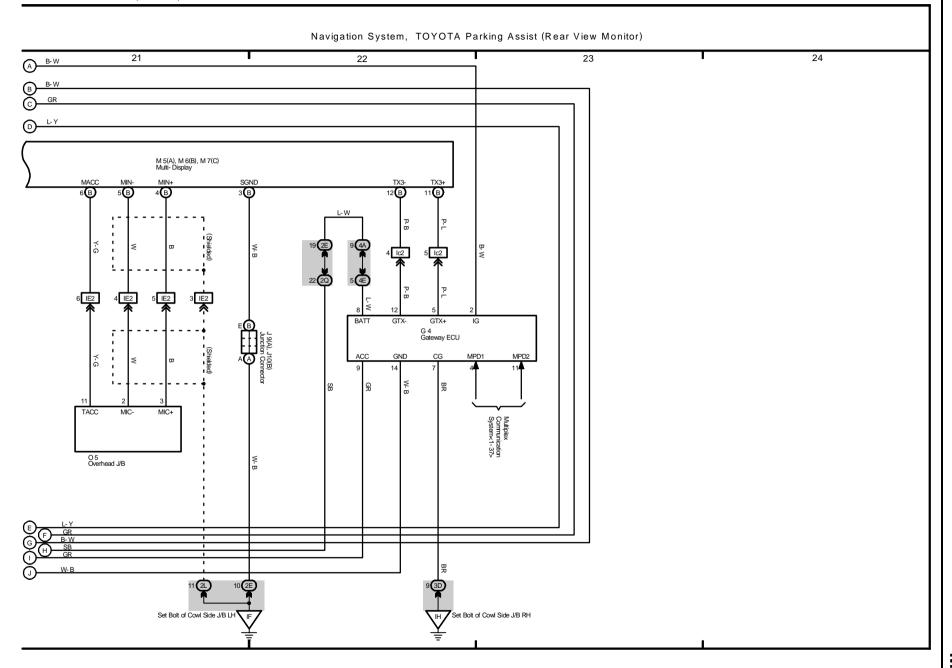


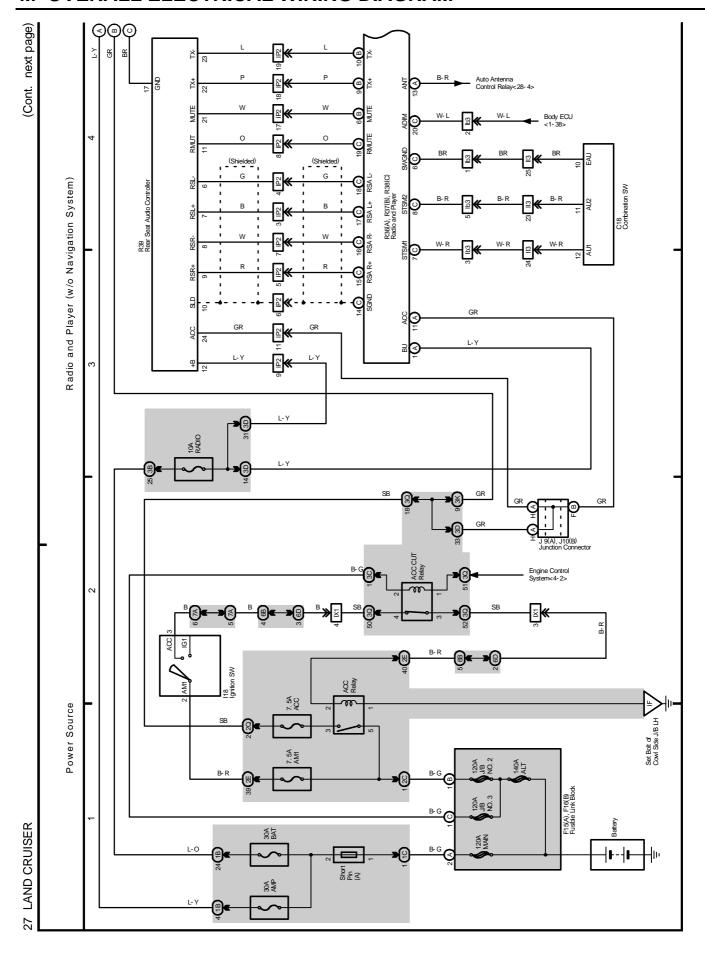
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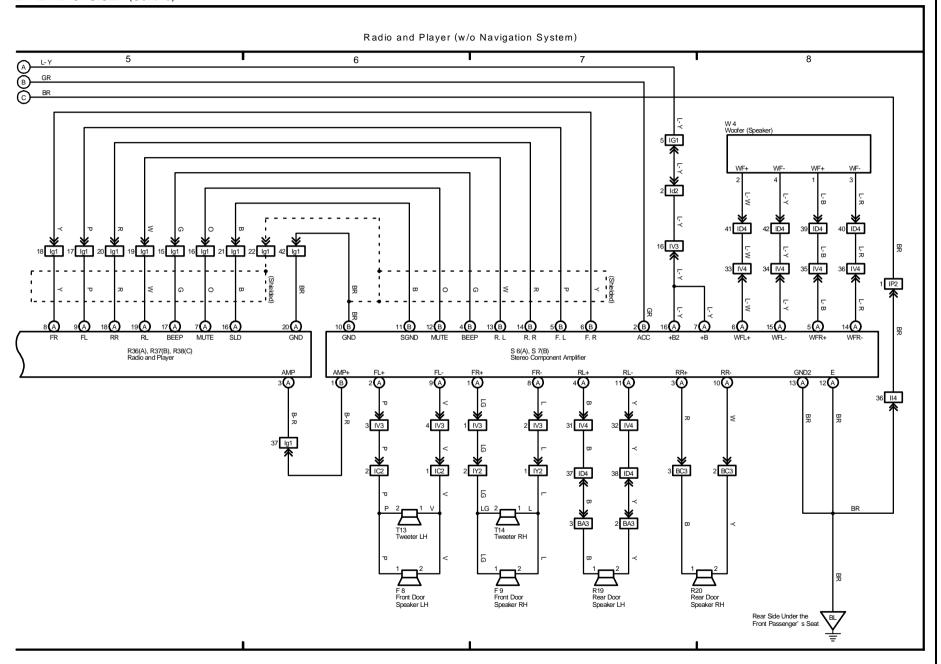


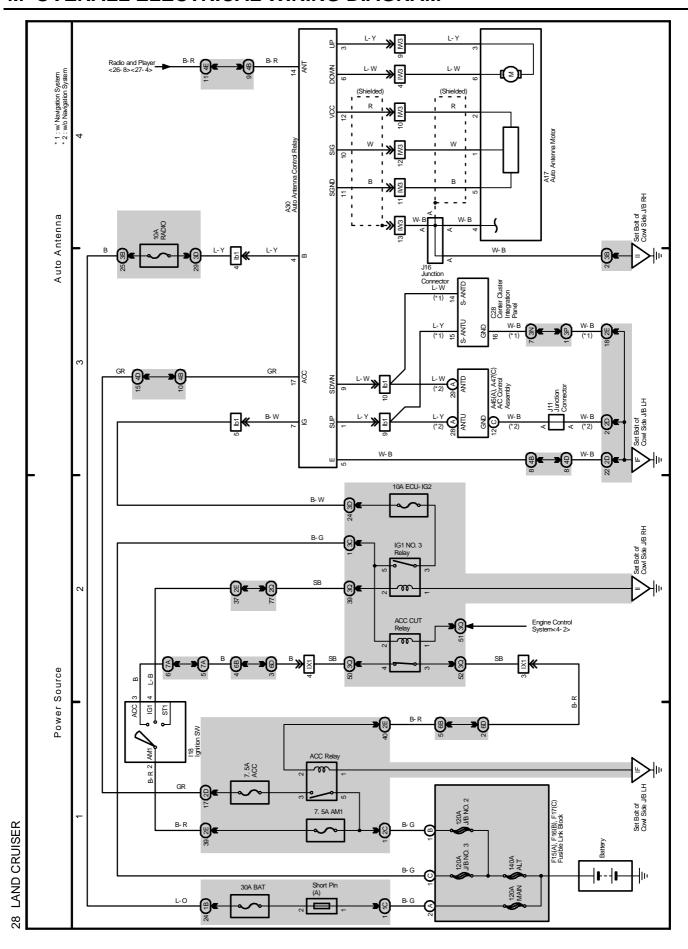
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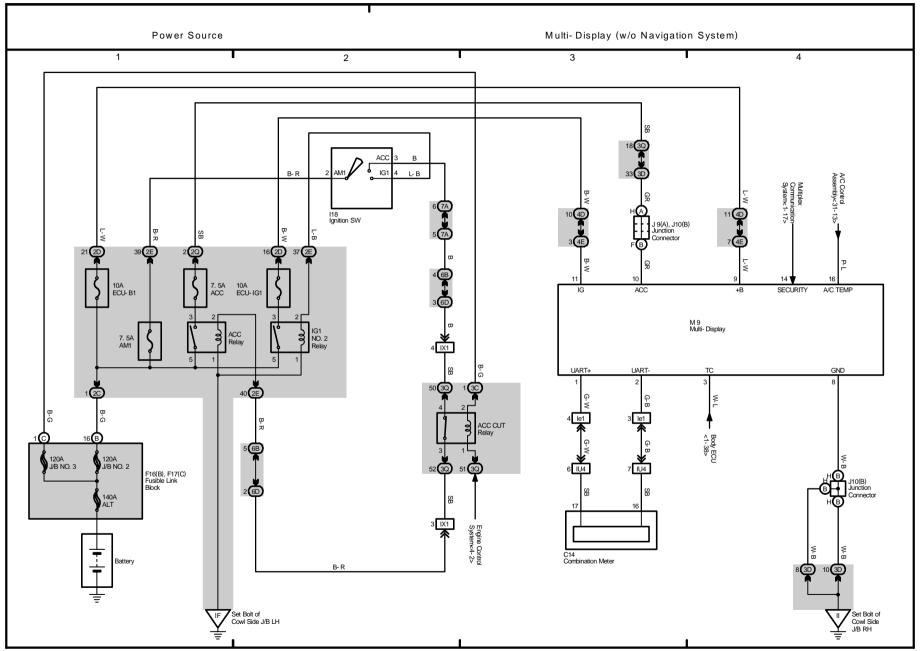


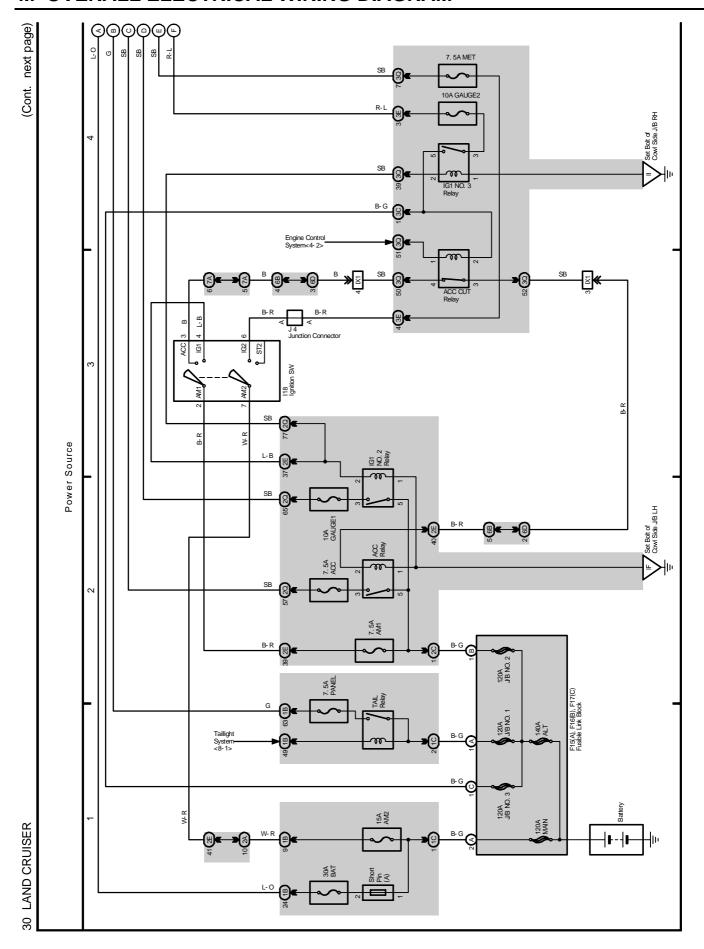


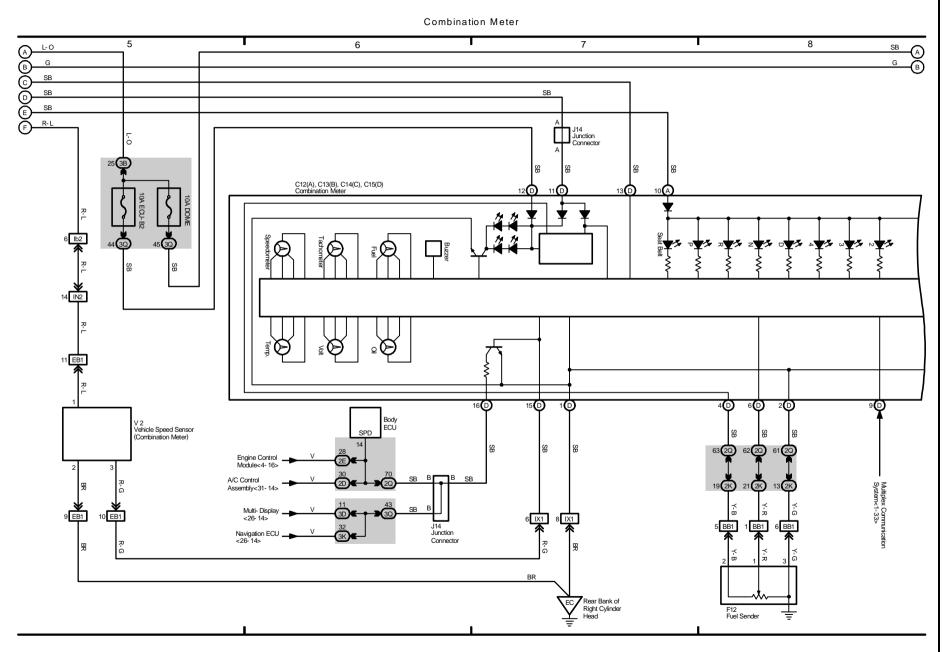




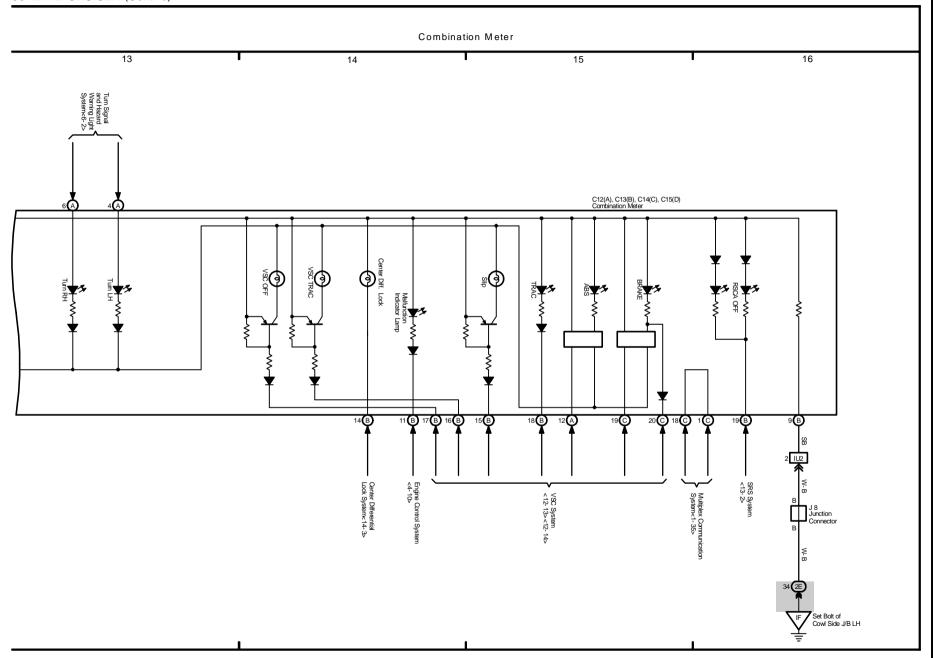


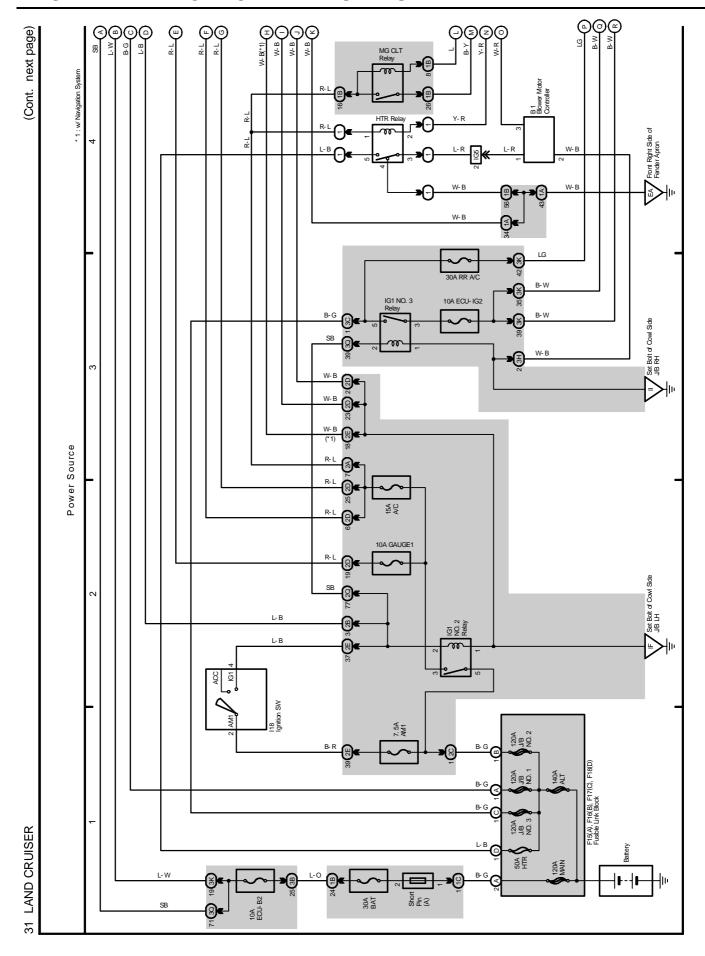


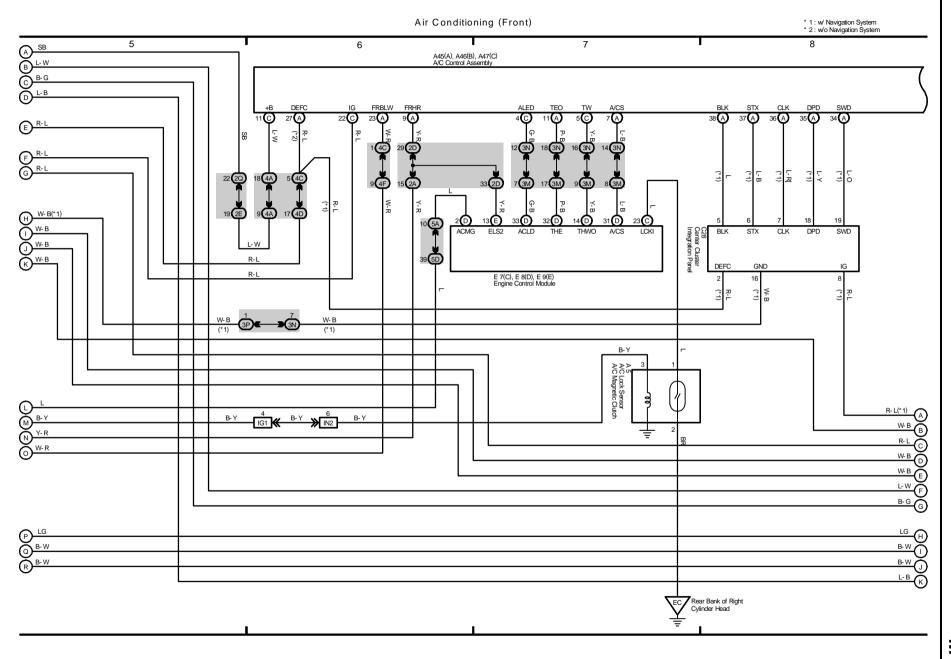




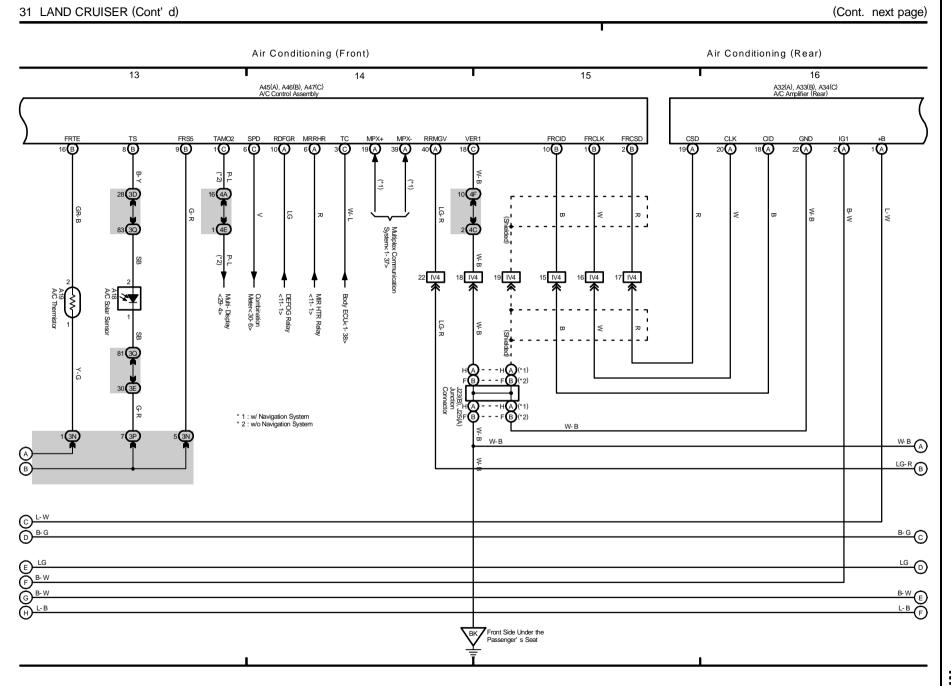
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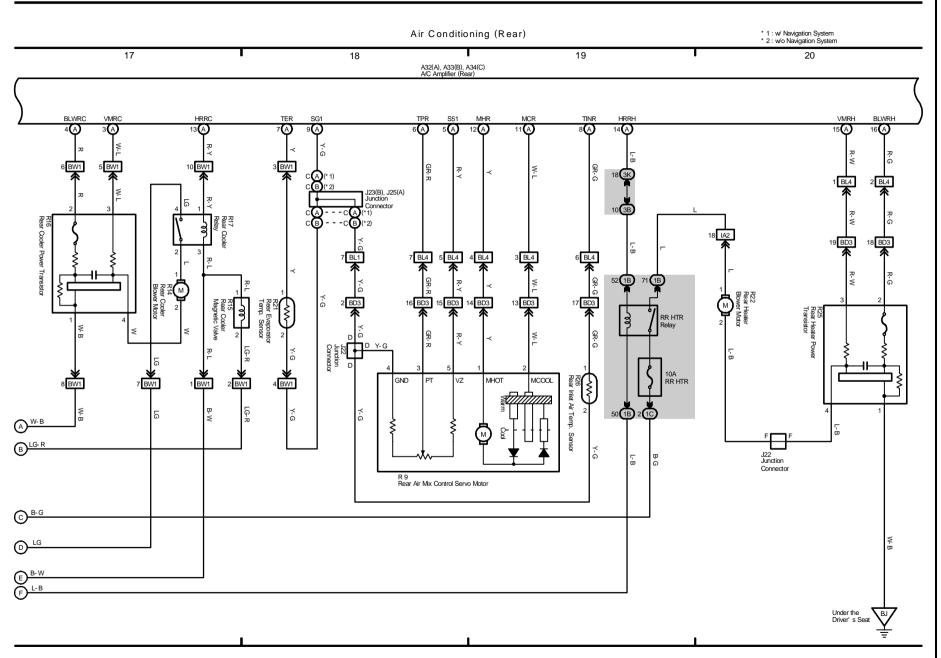


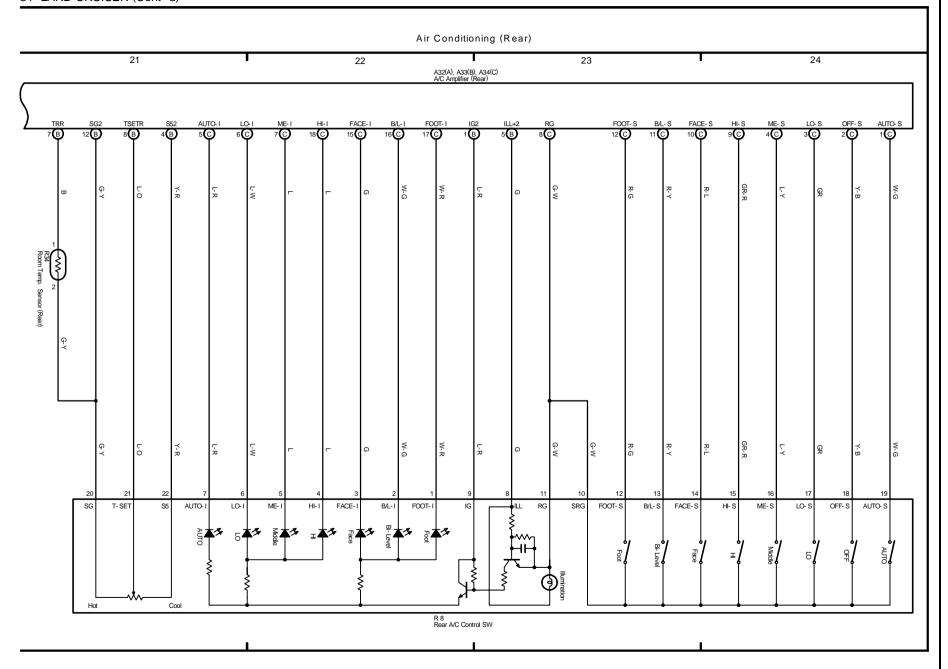


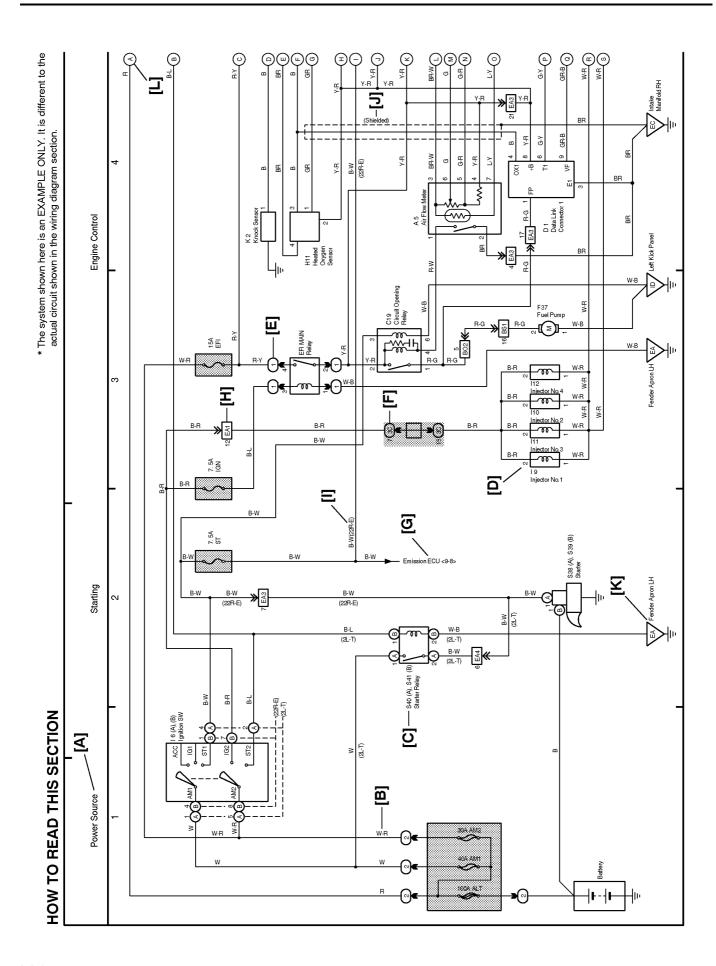
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31 LAND CRUISER (Cont' d) (Cont. next page)







- [A] : System Title
- [B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black W = White BR = Brown

L = Blue V = Violet SB = Sky Blue

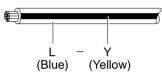
R = Red G = Green LG = Light Green

P = Pink Y = Yellow GR = Gray

O = Orange

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L-Y

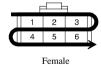


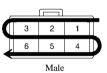
- [C] : The position of the parts is the same as shown in the wiring diagram and wire routing.
- [D] : Indicates the pin number of the connector.

 The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



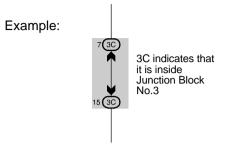


The numbering system for the overall wiring diagram is the same as above

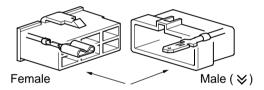
[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example: 1 Indicates Relay Block No.1

[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.



- [G] : Indicates related system.
- [H] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (⋈). Outside numerals are pin numbers.



- [I] : () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.
- [J] : Indicates a shielded cable.



- [K]: Indicates and located on ground point.
- [L] : The same code occuring on the next page indicates that the wire harness is continuous.

2004	
CRU	
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2004 LAND CRUISER (EWD548U)	

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioning (Front)	31-15	* Light Auto Turn Off * Power Window * Theft Deterrent * Wireless Door Lock Control	
Automatic Glare-Resistant EC Mirror with Co	mpass 15-3	Navigation System	26-12
Back-Up Light	10-2	Power Outlet	20-2
Center Differential Lock	14-3	Power Rear Quarter Window	11-4
Charging	2-4	Power Seat	22-2
Cigarette Lighter	21-2	Power Source	1~31-1
Combination Meter	30-5	Power Tilt and Power Telescopic	23-2
Cruise Control	5-5	Radio and Player (w/ Navigation System)	26-5
Electronically Controlled Transmission and A/	T Indicator5-6	Radio and Player (w/o Navigation System)	27-3
Engine Control	4-4	Rear Window Defogger	
Engine Immobiliser System	4-19	Rear Wiper and Washer	19-2
Front Wiper and Washer	18-2	Remote Control Mirror	
Garage Door Opener	15-4	Seat Belt Warning	25-2
Horn	18-4	Seat Heater	21-3
Ignition	3-2	Shift Lock	24-3
Illumination	9-3	SRS	
Mirror Heater		Starting	2-2
Moon Roof	17-2	Stop Light	
Multi-Display (w/o Navigation System)	29-3	Taillight	8-2
Multiplex Communication System	1-5	TOYOTA Parking Assist (Rear View Monitor	r) 26-12
* Automatic Light Control * Door Lock Control		Trailer Towing	7-2
* Front Fog Light		Turn Signal and Hazard Warning Light	6-2
* Headlight* Interior Light* Key Reminder		VSC	12-4

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070	B 7	Body ECU	90980-12151
A 4	Pressure SW	90980-10943	B 8	Body ECU	90980-12149
	A/C Lock Sensor		B 9	Body ECU	90980-12150
A 5	A/C Magnetic Clutch	90980-11016	C 1	Camshaft Position Sensor	90980-10947
A12	ABS Speed Sensor Front LH	90980-10941	C 2	Center Diff. Lock Control Motor	90980-11024
A13	ABS Speed Sensor Front RH	90980-11002	C 3	Crankshaft Position Sensor	90980-11162
A14	Accel Position Sensor	90980-11144	C 5	Center Diff. Lock Control Relay	90980-10801
A15	Airbag Sensor Front LH	22222 44252	C10	Cigarette Lighter	90980-10760
A16	Airbag Sensor Front RH	90980-11856	C11	Cigarette Lighter Illumination	90980-11148
A17	Auto Antenna Motor	90980-11194	C12	Combination Meter	82824-60060
A18	A/C Solar Sensor	90980-11919	C13	Combination Meter	82824-60050
A19	A/C Thermistor	90980-11918	C14	Combination Meter	82824-60060
A24	Air Inlet Control Servo Motor	90980-11909	C15	Combination Meter	82824-60050
A25	Air Mix Control Servo Motor	90980-10797	C16	Combination SW	90980-11672
A26	Air Vent Mode Control Servo Motor	90980-11165	C17	Combination SW	90980-12155
A27	Airbag Squib (Front Passenger Airbag		C18	Combination SW	90980-12183
	Assembly)	90980-12160	C19	Combination SW	90980-11594
A28	Airbag Squib (Steering Wheel Pad)			Center Airbag Sensor Assembly (w/ Side	82824-50160
A29	Ashtray Illumination	90980-10825	C25	Airbag)	0202 1 00 100
A30	Auto Antenna Control Relay	90980-10819		Center Airbag Sensor Assembly (w/o Side Airbag)	90980-11873
A31	Automatic Light Control Sensor	90980-12056	C26	Center Airbag Sensor Assembly	90980-11872
A32	A/C Amplifier (Rear)	90980-11502	020	Center Airbag Sensor Assembly (w/ Side	
A33	A/C Amplifier (Rear)	90980-11475	C27	Airbag)	82824-50150
A34	A/C Amplifier (Rear)	90980-11497	C27	Center Airbag Sensor Assembly (w/o Side	90980-11871
A35	ABS Speed Sensor Rear LH	90980-11073		Airbag)	
A36	ABS Speed Sensor Rear RH		C28	Center Cluster Integration Panel	90980-12200
A37	ABS & BA & TRAC & VSC Actuator	90980-11413	C29	Curtain Shield Airbag Squib LH	90980-11864
A38	ABS & BA & TRAC & VSC Actuator	90980-10895	C30	Curtain Shield Airbag Squib RH	
A39	ABS & BA & TRAC & VSC Actuator	90980-11151	D 1	Data Link Connector 1	90980-11195
A40	ABS & BA & TRAC & VSC Actuator	90980-11009	D 2	Daytime Running Light Relay No.3	90980-10939
A41	ABS & BA & TRAC & VSC ECU	90980-11935	D 3	Daytime Running Light Relay No.3	90980-10940
A42	ABS & BA & TRAC & VSC ECU	90980-11476	D 4	Detection SW (Center Diff. Lock)	90980-11250
A43	ABS & BA & TRAC & VSC ECU	90980-11637	D 5	Detection SW (Transfer L Position)	
A44	ABS & BA & TRAC & VSC ECU	90980-11638	D 6	Detection SW (Transfer Neutral Position)	90980-11025
A45	A/C Control Assembly	90980-12170	D 7	Data Link Connector 3	90980-11665
A46	A/C Control Assembly	90980-11913	D10	Door Courtesy Light Front LH	_
A47	A/C Control Assembly	90980-11927	D11	Door Courtesy Light Front RH	90980-11148
A48	A/T Shift Lever Illumination	90980-11911	D12	Door Courtesy Light Rear LH	-
	Shift Lock Control ECU	00000 10015	D13	Door Courtesy Light Rear RH	
B 1	Blower Motor Controller	90980-10910	D14	Door Courtesy SW Front LH	-
B 2	Back Door Courtesy SW	90980-10039	D15	Door Courtesy SW Front RH	90980-10871
B 3	Back Door Key Lock and Unlock SW	90980-11490	D16	Door Courtesy SW Rear LH	-
B 4	Back Door Lock Motor	90980-11150	D17	Door Courtesy SW Rear RH	
	Back Door Unlock Detection SW		D18	Door Key Lock and Unlock SW LH	90980-11170
B 5	Buckle SW LH	90980-11169	D19	Door Key Lock and Unlock SW RH	00000 11055
B 6	Buckle SW RH		D20	Door Lock Control SW RH	90980-11950

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number	Code	Part Name	Part Number
_	Door Lock Motor Front LH		H 1	Headlight LH (High)	90980-11659
D21	Door Unlock Detection SW Front LH	_	H 2	Headlight LH (Low)	90980-11660
	Door Lock Motor Front RH		Н3	Headlight RH (High)	90980-11659
D22	Door Unlock Detection SW Front RH	1	H 4	Headlight RH (Low)	90980-11660
	Door Lock Motor Rear LH	90980-11150	H 5	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980-10869
D23	Door Unlock Detection SW Rear LH		H 6	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980-11028
504	Door Lock Motor Rear RH		H 7	Heated Oxygen Sensor (Bank 2 Sensor 1)	90980-10869
D24	Door Unlock Detection SW Rear RH		H 8	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11028
D26	DVD Automatic Changer	90980-11971	H 9	Horn LH	00000 40040
D27	Door Control Receiver	90980-11909	H10	Horn RH	90980-10619
E 1	Electronically Controlled Transmission Solenoid	90980-12293	H11	High Mounted Stop Light	90980-11211
			I 1	Ignition Coil and Igniter No.1	
E 2	Engine Coolant Temp. Sensor	90980-10736	12	Ignition Coil and Igniter No.2	
E 3	Engine Hood Courtesy SW	90980-11003	13	Ignition Coil and Igniter No.3]
E 4	Electronically Controlled Transmission Pattern Select SW	90980-10933	14	Ignition Coil and Igniter No.4	90980-11885
E 5	Engine Control Module	90980-12144	15	Ignition Coil and Igniter No.5	90960-11665
E 6	Engine Control Module	90980-12145	16	Ignition Coil and Igniter No.6	
E 7	Engine Control Module	90980-12143	17	Ignition Coil and Igniter No.7	
E 8	Engine Control Module	90980-12146	18	Ignition Coil and Igniter No.8	
E 9	Engine Control Module	90980-12142	19	Injector No.1	
F 1	Front Fog Light LH		l10	Injector No.2	
F 2	Front Fog Light RH	90980-11660	l11	Injector No.3	
	Front Turn Signal Light LH		l12	Injector No.4	90980-11153
F3	Side Marker Light LH		l13	Injector No.5	30000 11100
	Front Turn Signal Light RH	90980-11020	l14	Injector No.6	
F 4	Side Marker Light RH	_	l15	Injector No.7	
F 5	Front Wiper Motor	90980-11599	I16	Injector No.8	
F 8	Front Door Speaker LH		l18	Ignition SW	90980-11615
F 9	Front Door Speaker RH	90980-10935	122	Inner Mirror	90980-11186
F	Front Interior Light	00000 12211	J 1	Junction Connector	90980-11398
F10	Rear Personal Light	90980-12211	J 2	Junction Connector	90980-11915
F11	Front Personal Light	90980-10825	J 3	Junction Connector	90980-11398
F40	Fuel Pump	00000 44077	J 4	Junction Connector	
F12	Fuel Sender	90980-11077	J 5	Junction Connector	90980-11925
F14	Fuel Pump Resistor	90980-11156	J 6	Junction Connector	90980-11927
F15	Fusible Link Block	90980-11996	J 7	Junction Connector	
F16	Fusible Link Block	90980-11881	J 8	Junction Connector	90980-10803
F17	Fusible Link Block	90980-11775	J 9	Junction Connector	90980-11927
F18	Fusible Link Block	90980-10995	J10	Junction Connector	
F19	Fusible Link Block	82675-60050	J11	Junction Connector	90980-10803
G 1	Generator	90980-11964	J12	Junction Connector	90980-11927
G 2	Generator	90980-09212	J13	Junction Connector	90980-11925
G 3	Glove Box Light	90980-11098	J14	Junction Connector	90980-11927
G 4	Gateway ECU	90980-11911	J15	Junction Connector	90980-11925

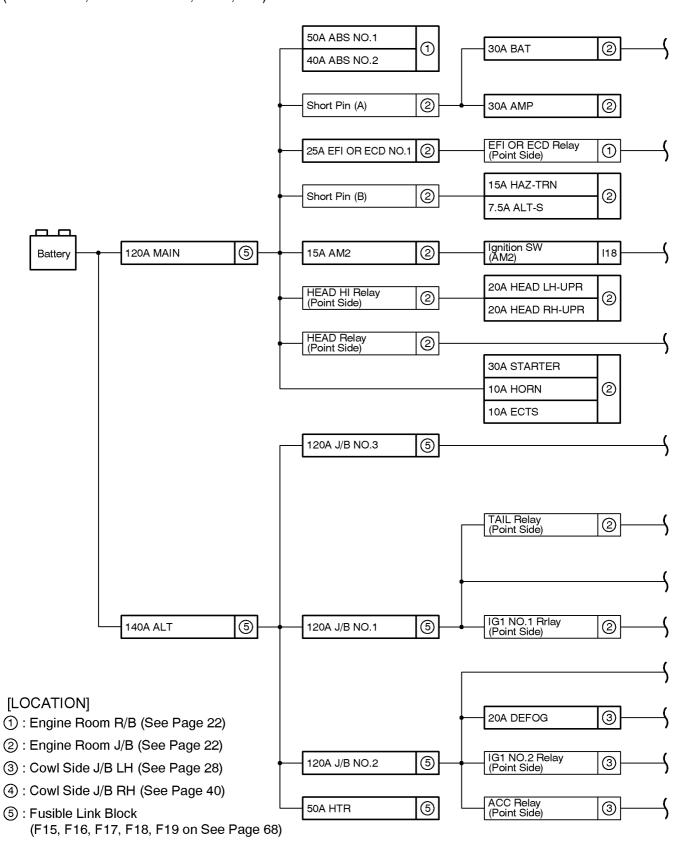
L PART NUMBER OF CONNECTORS

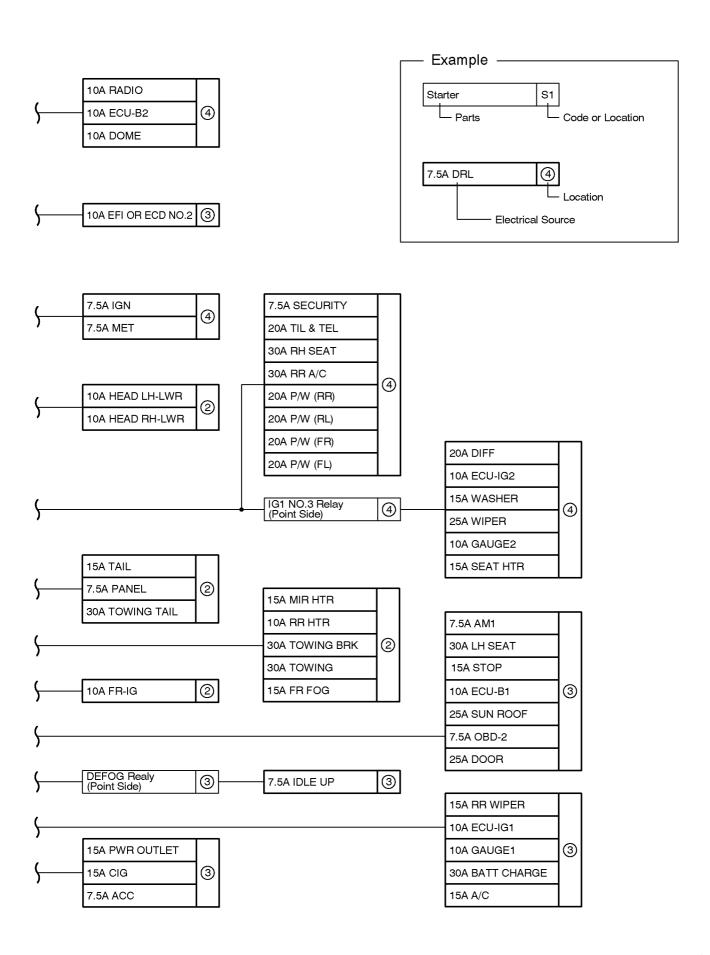
Code	Part Name	Part Number	Code	Part Name	Part Number
J16	Junction Connector	T dit i validoi	P18	Power Window Control SW Front RH	Tarrivamber
J17	Junction Connector	90980-11915	P19	Power Window Control SW Rear LH	90980-11947
J18	Junction Connector		P20	Power Window Control SW Rear RH	30300 11347
J19	Junction Connector		P21	Pretensioner LH	
J20	Junction Connector	90980-11661	P22	Pretensioner RH	90980-11862
J21	Junction Connector		P23	Power Seat Control SW (Driver's Seat)	
J22	Junction Connector			Power Seat Control SW (Front Passenger's	90980-10803
J23	Junction Connector		P24	Seat)	
J25	Junction Connector	90980-11915	P25	Power Seat Motor (Driver's Seat Front	
J26	Junction Connector		1 20	Vertical Control)	
K 1	Knock Sensor 1		P26	Power Seat Motor (Driver's Seat Lumbar Support Control)	
K 2	Knock Sensor 2	90980-11166		Power Seat Motor (Driver's Seat Rear	-
K3	Key Interlock Solenoid	90980-10825	P27	Vertical Control)	
L 1	License Plate Light LH	90900-10023	P28	Power Seat Motor (Driver's Seat Reclining	•
L 2	License Plate Light RH	90980-11148	1 20	Control)	
L 3	Lumbar Support Control SW (Driver's Seat)	90980-10601	P29	Power Seat Motor (Driver's Seat Slide Control)	90980-10825
M 1	Mass Air Flow Meter	90980-10001		,	-
			P30	Power Seat Motor (Front Passenger's Seat Front Vertical Control)	
M 2	Moon Roof Control ECU Moon Roof Control SW	90980-10997	P31	Power Seat Motor (Front Passenger's Seat	-
M 3		90980-10789	FSI	Rear Vertical Control)	
M 4	Master Cylinder Pressure Sensor	90980-11451	P32	Power Seat Motor (Front Passenger's Seat Reclining Control)	
M 5	Multi-Display	90980-12203		, , , , , , , , , , , , , , , , , , ,	-
M 6	Multi-Display	90980-12410	P33	Power Seat Motor (Front Passenger's Seat Slide Control)	
M 7	Multi-Display	90980-12012 90980-12094	R 5	Remote Control Mirror SW	90980-11657
M 9	Multi-Display	90980-12094	R 6	Rheostat	90980-10799
N 1	Noise Filter (Ignition)		R 7	Room Temp. Sensor (Front)	90980-11918
N 2	Navigation ECU	90980-11973	R 8	Rear A/C Control SW	90980-11503
N 3	Navigation ECU	90980-11923	R 9	Rear Air Mix Control Servo Motor	90980-11319
N 4	Navigation ECU	90980-12221	R10	Rear Combination Light LH	90980-11587
02	Oil Pressure Sender	90980-11363	R11	Rear Combination Light LH	
0.5	Overhead J/B	90980-12155	R12	Rear Combination Light RH	90980-10908
P1	Park/Neutral Position SW	90980-11784	R13	Rear Combination Light RH	90980-11587
P 2	Parking Light LH	90980-11156	R14	Rear Cooler Blower Motor	90980-10214
P 3	Parking Light RH	00000 40700	R15	Rear Cooler Magnetic Valve	90980-10860
P 4	Power Outlet (Front)	90980-10760	R16	Rear Cooler Power Transistor	
P 5	Power Outlet (Rear Console Box)	90980-10860	R17	Rear Cooler Relay	90980-10171
P 6	Power Quarter Window SW LH	90980-10797	R19	Rear Door Speaker LH	
P 7	Power Quarter Window SW RH	90980-10996	R20	Rear Door Speaker RH	90980-10935
P 8	Parking Brake SW	90980-10871	R21	Rear Evaporator Temp. Sensor	90980-11918
P 9	Power Outlet (Luggage Compartment)		R22	Rear Heater Blower Motor	90980-10860
P10	Power Vent Window Motor LH	90980-10860	R25	Rear Heater Power Transistor	90980-10171
P11	Power Vent Window Motor RH	20000 12125	R26	Rear Inlet Air Temp. Sensor	90980-11369
P12	Power Window Master SW	90980-12166	R27	Rear Interior Light	90980-10935
P14	Power Window Motor Front LH		R28	Rear Window Defogger	
P15	Power Window Motor Front RH	90980-11599	R29	Rear Window Defogger	90980-11097
P16	Power Window Motor Rear LH		R30	Rear Wiper Motor	90980-10795
P17	Power Window Motor Rear RH			,	1 22222 10700

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number	Code	Part Name	Part Number
R31	Rear Wiper Relay	90980-10797	Т7	Tilt and Telescopic ECU	90980-10799
R32	Remote Control Mirror LH	00000 44570	T 8	Tilt and Telescopic ECU	90980-10848
R33	Remote Control Mirror RH	90980-11573	Т9	Tilt Motor	90980-10799
R34	Room Temp. Sensor (Rear)	90980-11918	T40	Ignition Key Cylinder Light	00000 40000
R36	Radio and Player	90980-12038	T10	Transponder Key Amplifier	90980-12092
R37	Radio and Player	90980-12183	T11	Turn Signal Flasher	90980-10799
R38	Radio and Player	90980-12259	T12	Trailer Socket	82824-34030
R39	Rear Seat Audio Controller	90980-12200	T13	Tweeter LH	00000 44000
R40	Roll Sensing of Curtain Shield Airbags	90980-10957	T14	Tweeter RH	90980-11300
1140	Cutoff SW	30300-10337	T15	Towing Converter Relay	90980-11535
S 1	Starter	90980-11400	T16	Throttle Control Motor and Sensor	90980-11858
S 2	Starter	90980-09585	T17	Turbine Speed Sensor	90980-11156
S 3	Seat Heater SW (Driver's Seat)	90980-10797	T18	Towing Brake Controller	90980-11603
S 4	Seat Heater SW (Front Passenger's Seat)	90980-10996	T19	Transponder Key Computer	90980-11911
S 5	Stop Light SW	90980-11118	T20	Television Camera	90980-12381
S 6	Stereo Component Amplifier	90980-10848	T21	Television Camera ECU	90980-12169
S 7	Stereo Component Amplifier	90980-10807	T22	Television Camera ECU	90980-10997
S 8	Seat Belt Warning Occupant Detection Sensor	90980-10860	T23	Towing Hitch Relay	82660-20340
S 9	Seat Heater (Driver's Seat)		U 1	Unlock Warning SW	90980-10860
S10	Seat Heater (Front Passenger's Seat)	90980-10907	V 1	Vapor Pressure Sensor	90980-11143
S11	Side Airbag Sensor Front LH		V 2	Vehicle Speed Sensor (Combination Meter)	00000 11110
S12	Side Airbag Sensor Front RH	1	V 3	Vehicle Speed Sensor (Electronically Controlled Transmission)	
S13	Side Airbag Sensor Rear LH	90980-12225	V 4	VSV (EVAP)	90980-11156
S14	Side Airbag Sensor Rear RH	1	V 4	Vanity Light LH	
S15	Seat Heater (Driver's Seat Cushion)		V 7	Vanity Light RH	90980-11918
S16	Seat Heater (Front Passenger's Seat	90980-10794	V 8	VSC Warning Buzzer	90980-10906
310	Cushion)		V 8	-	
S17	Seat Position Sensor	90980-12195		VSV (Canister Closed Valve)	90980-11162
S18	Side Airbag Squib LH	90980-11864	V10	VSV (Pressure Switching Valve)	90980-11859
S19	Side Airbag Squib RH	30300-11004	W 1	Washer Motor	90980-11294
T 1	Theft Deterrent Horn	90980-10619	W 4	Woofer (Speaker)	90980-10795
T 4	Telescopic Motor	90980-10799	Y 1	Yaw Rate Sensor	90980-12080
T 5	Theft Deterrent ECU	90980-12169	Z 1	Option Connector (Glass Breakage Sensor)	90980-10825

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.





J POWER SOURCE (Current Flow Chart)

Engine Room R/B (See Page 22)

	Fuse	System	Page
40A	ABS NO.2	VSC	228
50A	ABS NO.1	VSC	228

Engine Room J/B (See Page 22)

	Fuse	System	Page
7.5A	ALT-S	Charging	104
		Combination Meter	350
7.5A	PANEL	Illumination	142
		Multiplex Communication System	172
		Cruise Control	222
10A	ETCS	Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
10A	FR-IG	Charging	104
		Front Fog Light	132
10A	HEAD LH-LWR	Headlight	128
		Multiplex Communication System	172
10A	HEAD RH-LWR	Headlight	128
IUA	HEAD KH-LVVK	Multiplex Communication System	172
		Horn	208
10A	HORN	Multiplex Communication System	172
		Theft Deterrent	282
10A	RR HTR	Air Conditioning (Rear)	366
		Automatic Light Control	164
		Engine Control	108
		Headlight	128
15A	AM2	Ignition	100
		Light Auto Turn Off	166
		Starting	98
		Theft Deterrent	282
15A	FR FOG	Front Fog Light	132
13/1	111100	Multiplex Communication System	172
15A	HAZ-TRN	Turn Signal and Hazard Warning Light	134
15A	MIR HTR	Mirror Heater	314
		Automatic Light Control	164
		Light Auto Turn Off	166
15A	TAIL	Multiplex Communication System	172
101	IAIL	Taillight	138
		Theft Deterrent	282
		Trailer Towing	158
204	HEAD LH-UPR	Headlight	128
20A	ITEAU LO-UPK	Multiplex Communication System	172
	•		

^{*} These are the page numbers of the first page on which the related system is shown.

	Fuse	System	Page
20.4	LIEAD DILLIDD	Headlight	128
20A	HEAD RH-UPR	Multiplex Communication System	172
		Cruise Control	222
25A	EFI OR ECD NO.1	Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
004	AMP	Radio and Player (w/ Navigation System)	324
30A	AlviP	Radio and Player (w/o Navigation System)	330
30A	STARTER	Engine Control	108
30A	STARTER	Starting	98
30A	TOWING	Trailer Towing	158
30A	TOWING BRK	Trailer Towing	158
30A	TOWING TAIL	Trailer Towing	158

Cowl Side J/B LH (See Page 28)

	Fuse	System	Page
		Auto Antenna	322
		Automatic Light Control	164
		Combination Meter	350
		Door Lock Control	260
		Engine Control	108
		Headlight	128
		Interior Light	148
		Key Reminder	316
		Light Auto Turn Off	166
7.5A	ACC	Multi-Display (w/o Navigation System)	348
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Window	250
		Radio and Player (w/ Navigation System)	324
		Radio and Player (w/o Navigation System)	330
		Remote Control Mirror	302
		Theft Deterrent	282
		Wireless Door Lock Control	270
		Air Conditioning (Rear)	366
		Engine Control	108
7.5A	AM1	Mirror Heater	314
		Rear Window Defogger	312
		Shift Lock	244
7.5A	IDLE UP	Multiplex Communication System	172
AC.1	IDLE UP	Rear Window Defogger	312
7.5A	OBD-2	Engine Control	108

^{*} These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

	Fuse	System	Page
		Multi-Display (w/o Navigation System)	348
10A	ECU-B1	Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Automatic Glare-Resistant EC Mirror with Compass	304
		Automatic Light Control	164
		Door Lock Control	260
		Headlight	128
		Interior Light	148
		Key Reminder	316
		Light Auto Turn Off	166
		Moon Roof	256
10A	ECU-IG1	Multi-Display (w/o Navigation System)	348
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist	
		(Rear View Monitor)	336
		Power Window	250
		Shift Lock	244
		Theft Deterrent	282
		VSC	228
		Wireless Door Lock Control	270
10A	EFI OR ECD NO.2	Engine Control	108
		Air Conditioning (Front)	356
		Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
10A	GAUGE1	Illumination	142
		Key Reminder	316
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Rear Quarter Window	306
		Seat Belt Warning	320
		Air Conditioning (Front)	356
15A	A/C	Air Conditioning (Rear)	366
		Seat Belt Warning	320
15A	CIG	Cigarette Lighter	204
15A	PWR OUTLET	Power Outlet	206
15A	RR WIPER	Rear Wiper and Washer	200
		Cruise Control	222
450	OTO D	Electronically Controlled Transmission and A/T Indicator	212
15A	STOP	Engine Control	108
		Multiplex Communication System	172

^{*} These are the page numbers of the first page on which the related system is shown.

	Fuse	System	Page
		Shift Lock	244
450	CTOD	Stop Light	156
15A	STOP	Trailer Towing	158
		VSC	228
20A	DEFOG	Rear Window Defogger	312
		Automatic Light Control	164
		Door Lock Control	260
		Headlight	128
		Interior Light	148
		Key Reminder	316
25A	DOOR	Light Auto Turn Off	166
		Moon Roof	256
		Multiplex Communication System	172
		Power Window	250
		Theft Deterrent	282
		Wireless Door Lock Control	270
25A	SUN ROOF	Moon Roof	256
30A	BATT CHARGE	Trailer Towing	158
30A	LH SEAT	Power Seat	294

Cowl Side J/B RH (See Page 40)

Fuse		System	Page
7.5A	IGN	Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
		Engine Immobiliser System	124
		SRS	237
		VSC	228
	MET	Center Differential Lock	246
		Charging	104
		Combination Meter	350
		Cruise Control	222
7.5A		Electronically Controlled Transmission and A/T Indicator	212
7.3A		Engine Control	108
		Multiplex Communication System	172
		Seat Belt Warning	320
		SRS	237
		VSC	228
7.5A	SECURITY	Multiplex Communication System	172
		Theft Deterrent	282
	DOME	Combination Meter	350
10A		Garage Door Opener	210
		Interior Light	148
		Multiplex Communication System	172

^{*} These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

	Fuse	System	Page
10A	DOME	Theft Deterrent	282
IUA	DOME	Wireless Door Lock Control	270
		Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Automatic Light Control	164
		Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Door Lock Control	260
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
		Engine Immobiliser System	124
		Headlight	128
10A	ECU-B2	Interior Light	148
		Key Reminder	316
		Light Auto Turn Off	166
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist	000
		(Rear View Monitor)	336
		Power Tilt and Power Telescopic	298
		Power Window	250
		Seat Belt Warning	320
		Theft Deterrent	282
		VSC	228
		Wireless Door Lock Control	270
	ECU-IG2	Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
404		Auto Antenna	322
10A		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Tilt and Power Telescopic	298
		Turn Signal and Hazard Warning Light	134
		Back-Up Light	162
	GAUGE2	Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Door Lock Control	260
		Electronically Controlled Transmission and A/T Indicator	212
10A		Engine Control	108
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Trailer Towing	158
		VSC	228
		Wireless Door Lock Control	
		Wifeless Door Lock Control	270

^{*} These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
10A	RADIO	Auto Antenna	322
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Radio and Player (w/ Navigation System)	324
		Radio and Player (w/o Navigation System)	330
15A	SEAT HTR	Seat Heater	308
15 /	WASHER	Front Wiper and Washer	196
15A		Rear Wiper and Washer	200
20A	DIFF	Center Differential Lock	246
	P/W (FL)	Door Lock Control	260
		Interior Light	148
20A		Multiplex Communication System	172
20A		Power Window	250
		Theft Deterrent	282
		Wireless Door Lock Control	270
20A	P/W (FR)	Multiplex Communication System	172
		Power Window	250
20A	P/W (RL)	Multiplex Communication System	172
ZUA		Power Window	250
20A	P/W (RR)	Multiplex Communication System	172
∠UA		Power Window	250
20A	TIL & TEL	Power Tilt and Power Telescopic	298
25A	WIPER	Front Wiper and Washer	196
30A	RH SEAT	Power Seat	294
30A	RR A/C	Air Conditioning (Rear)	366
30A	RR A/C	Air Conditioning (Rear)	3

Fusible Link Block (F15, F16, F17, F18, F19 on See Page 68)

Fuse		System	Page
50A	HTR	Air Conditioning (Front)	356
120A	J/B NO.1	Automatic Light Control	164
		Illumination	142
		Light Auto Turn Off	166
		Multiplex Communication System	172
		Taillight	138
		Theft Deterrent	282
120A	J/B NO.2	Air Conditioning (Rear)	366
		Engine Control	108
		Mirror Heater	314
		Rear Window Defogger	312
		Shift Lock	244
120A	J/B NO.3	Engine Control	108
120A	MAIN	Ignition	100
		Multiplex Communication System	172
		Starting	98

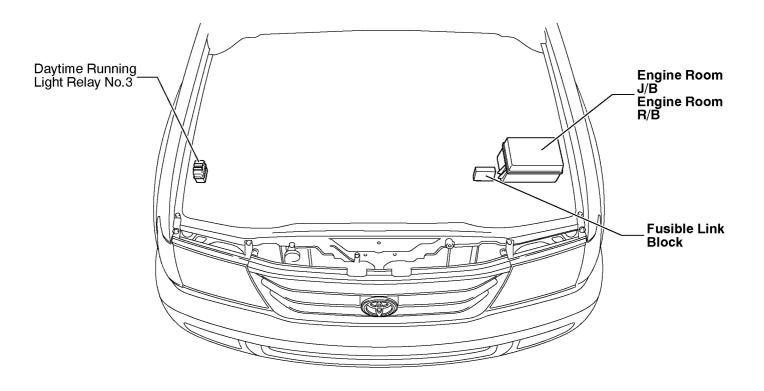
^{*} These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

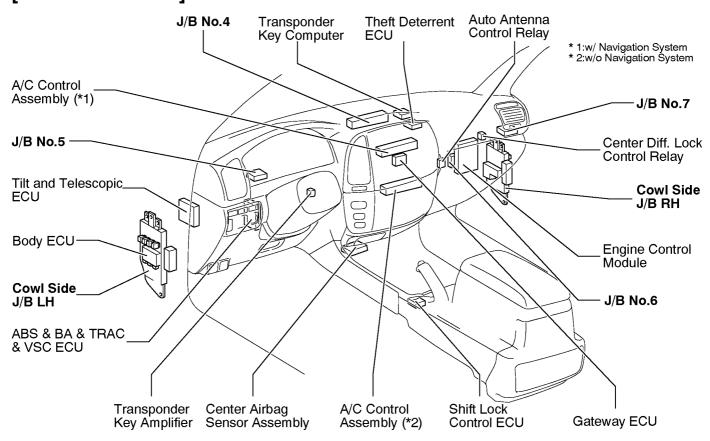
Fuse		System	Page
140A	ALT	Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Automatic Light Control	164
		Charging	104
		Engine Control	108
		Illumination	142
		Light Auto Turn Off	166
		Mirror Heater	314
		Multiplex Communication System	172
		Rear Window Defogger	312
		Shift Lock	244
		Taillight	138
		Theft Deterrent	282

^{*} These are the page numbers of the first page on which the related system is shown.

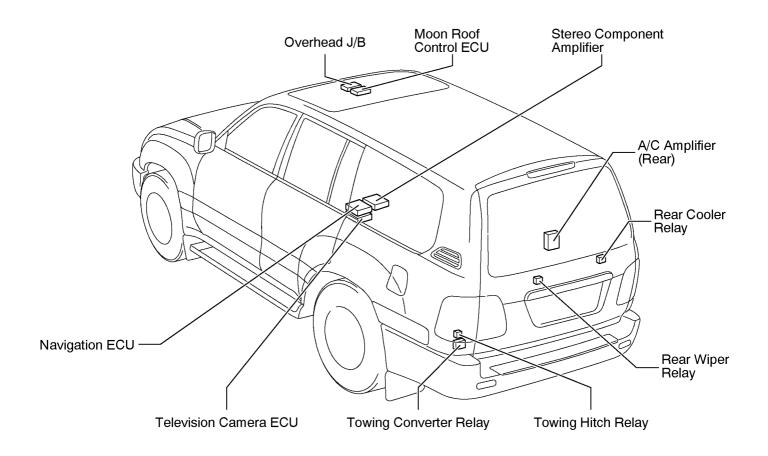
[Engine Compartment]



[Instrument Panel]

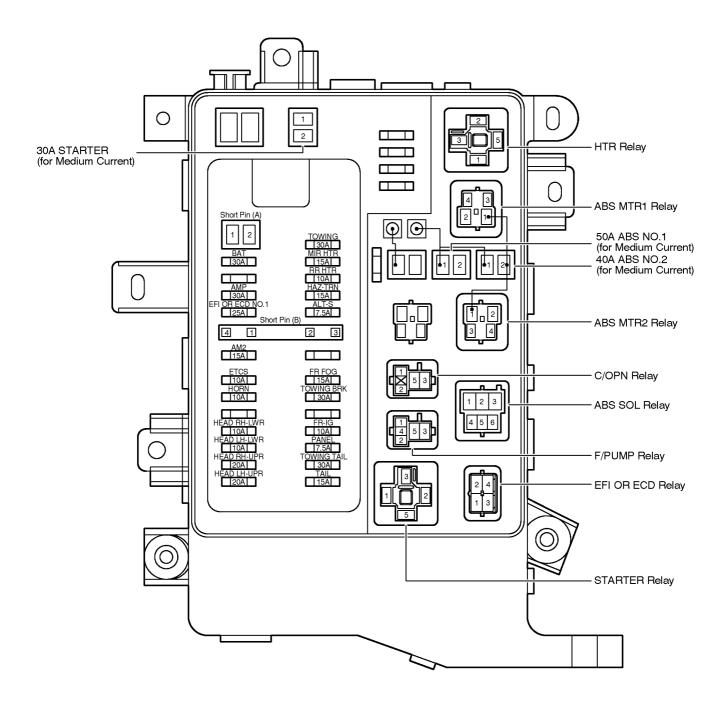


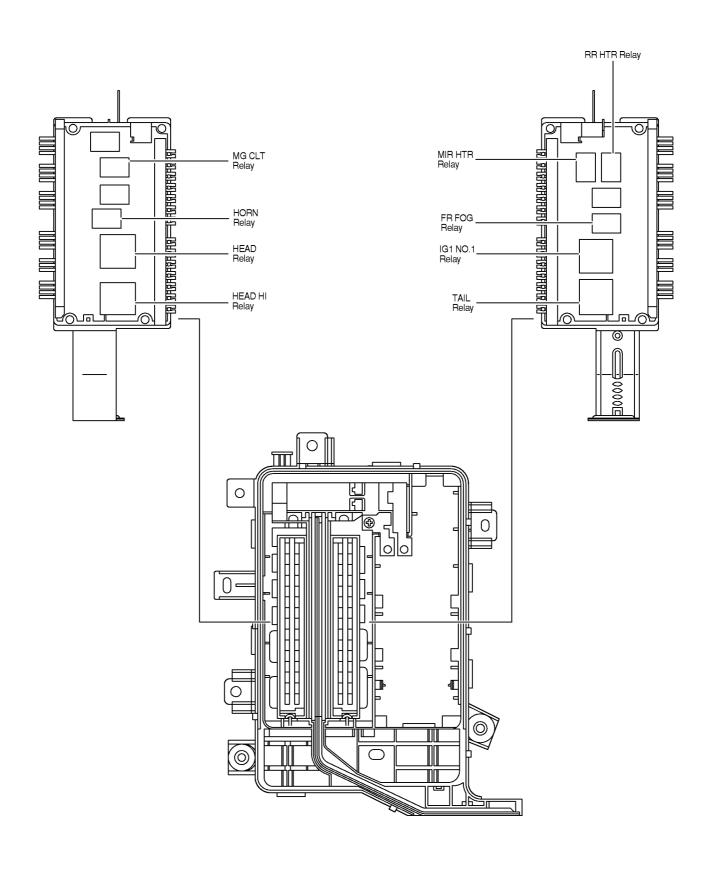
[Body]



: Engine Room J/B	Engine Compartment Left (See Page 20)
① : Engine Room R/B	Lingine Compartment Left (See Fage 20)

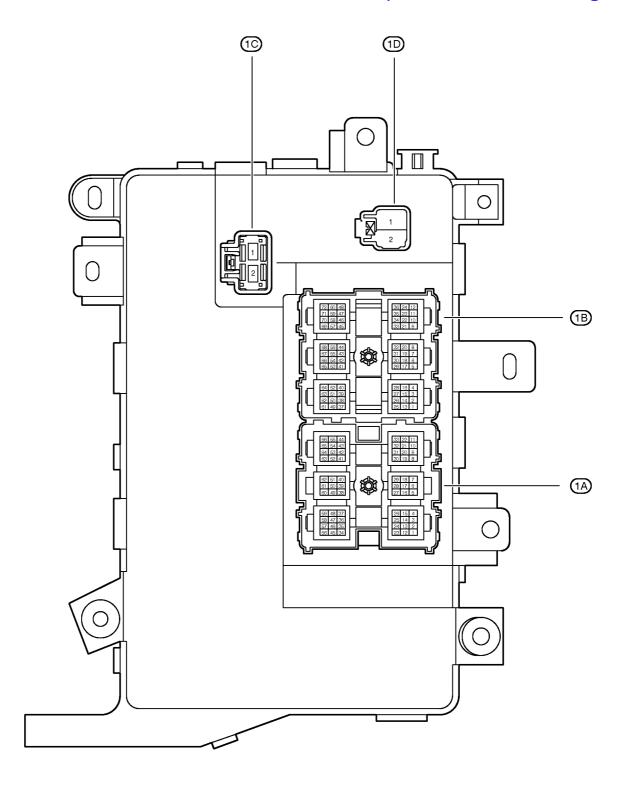
(Inner Circuit : See Page 26)

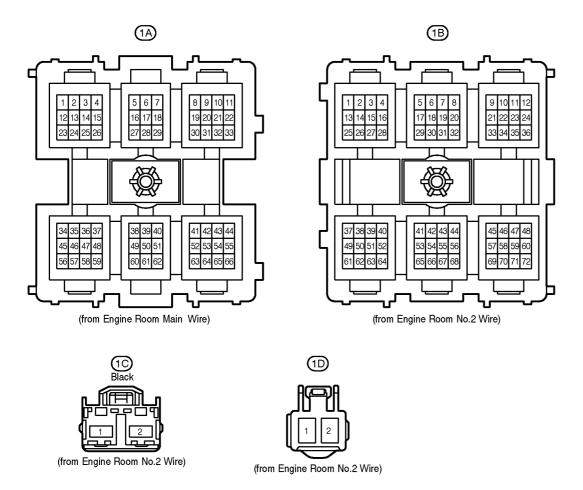




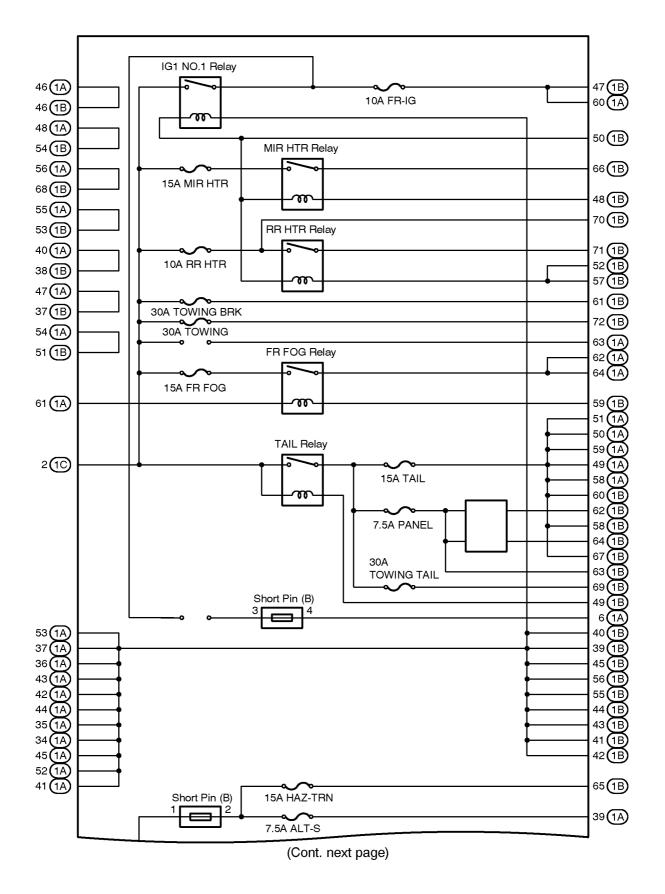
: Engine Room J/B Engine Compartment Left (See Page 20)

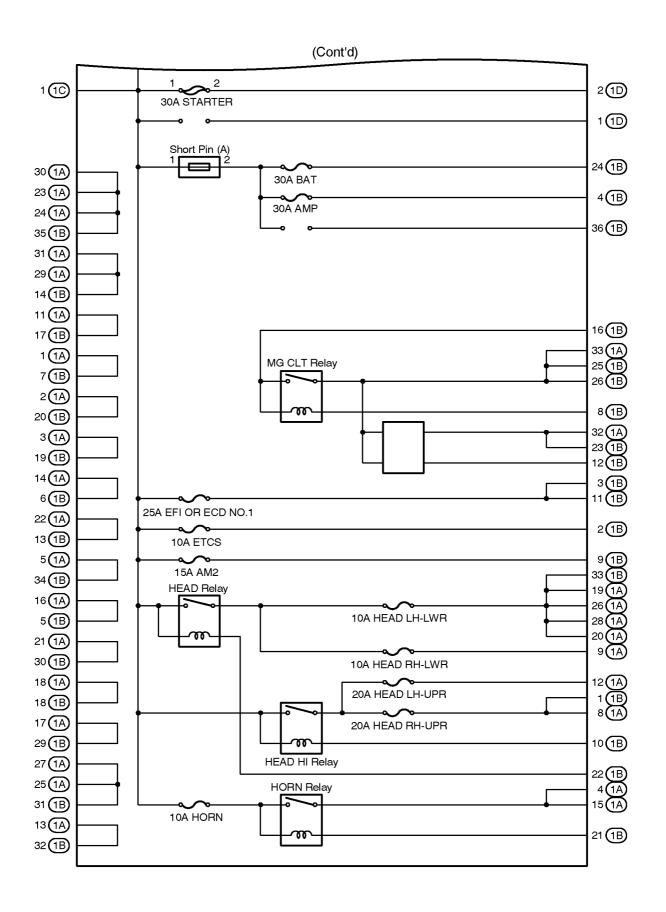
(Inner Circuit : See Page 26)





[Engine Room J/B Inner Circuit]

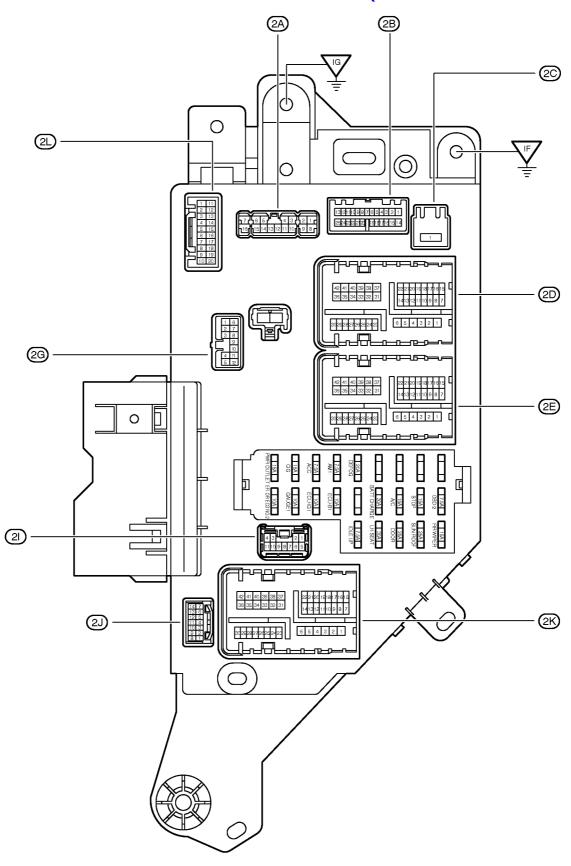


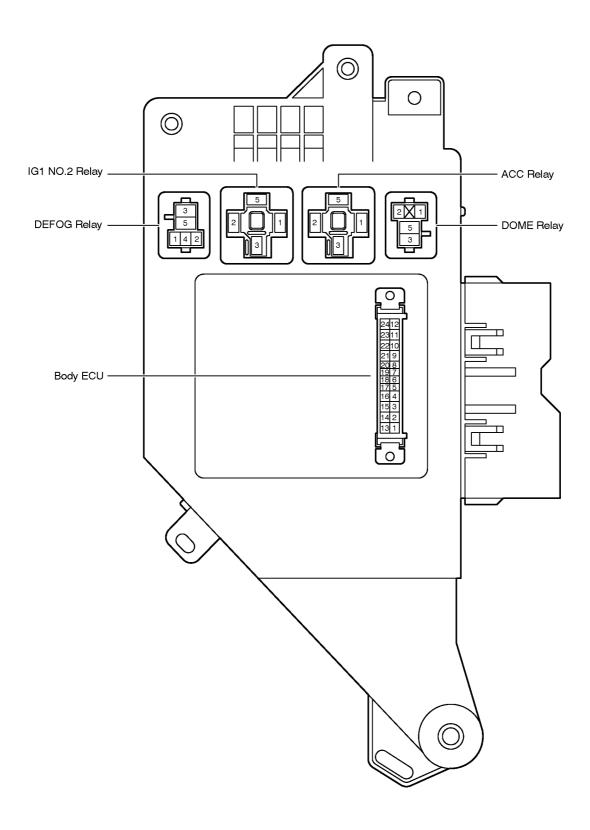


: Cowl Side J/B LH

Left Kick Panel (See Page 20)

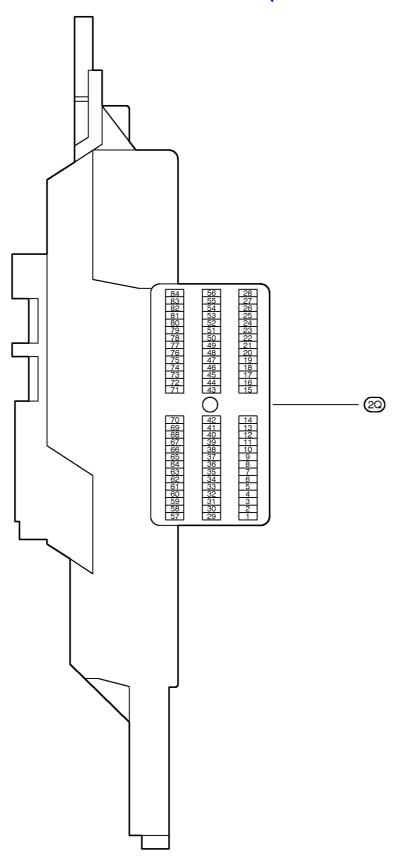
(Inner Circuit : See Page 34)





: Cowl Side J/B LH Left Kick Panel (See Page 20)

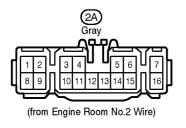
(Inner Circuit : See Page 34)

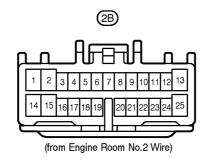


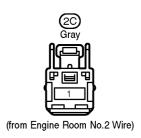
: Cowl Side J/B LH

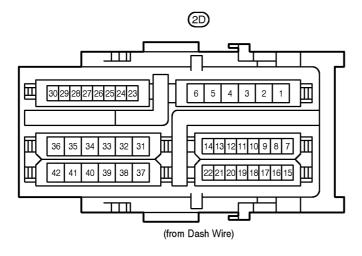
Left Kick Panel (See Page 20)

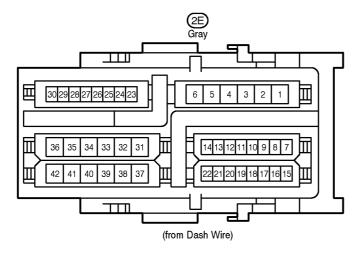
(Inner Circuit : See Page 34)

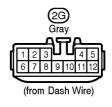






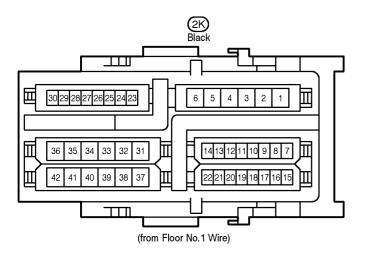


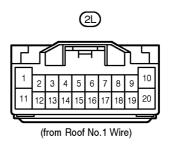


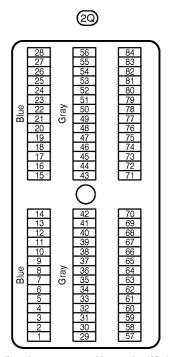






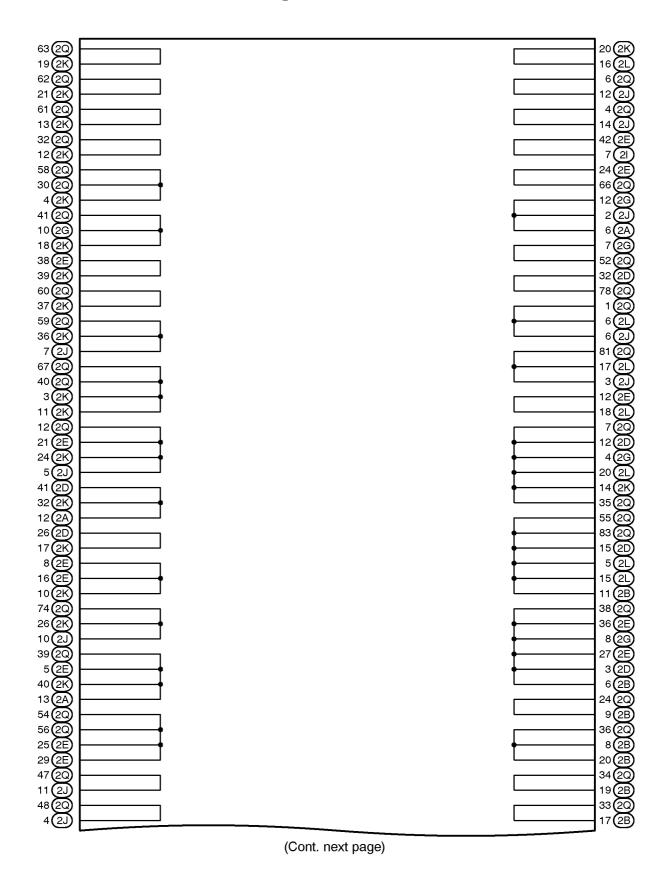




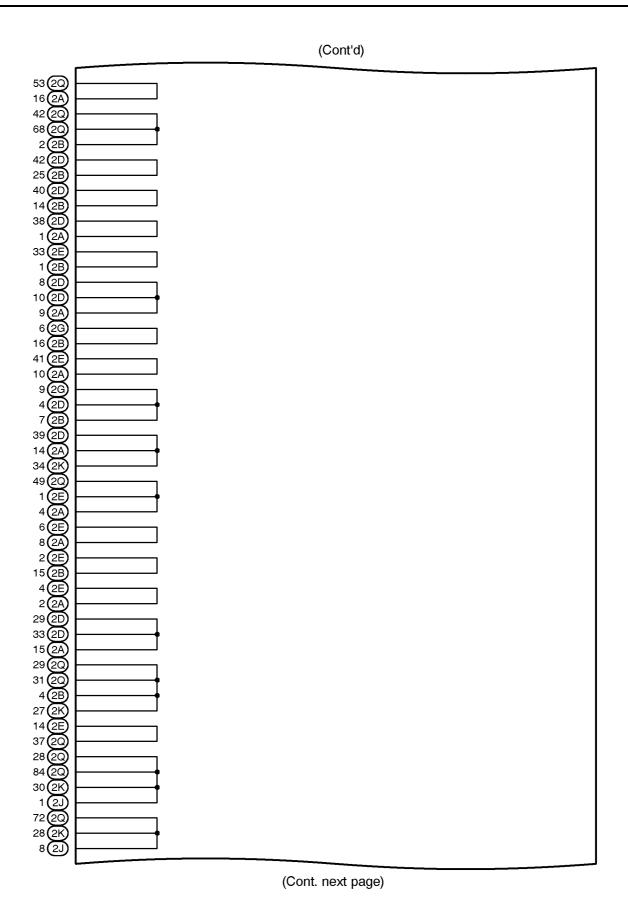


(from Instrument panel Integration Wire)

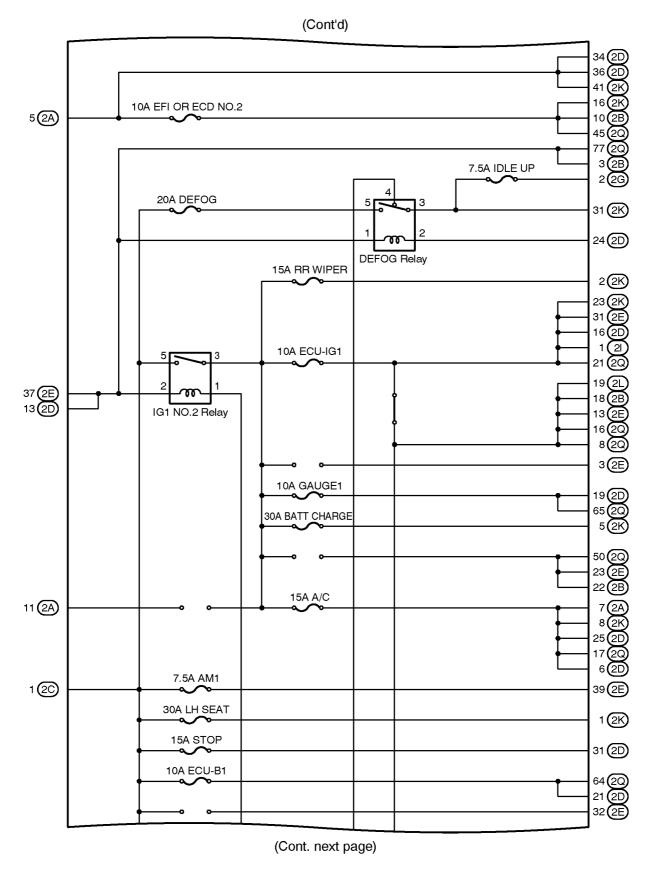
[Cowl Side J/B LH Inner Circuit]

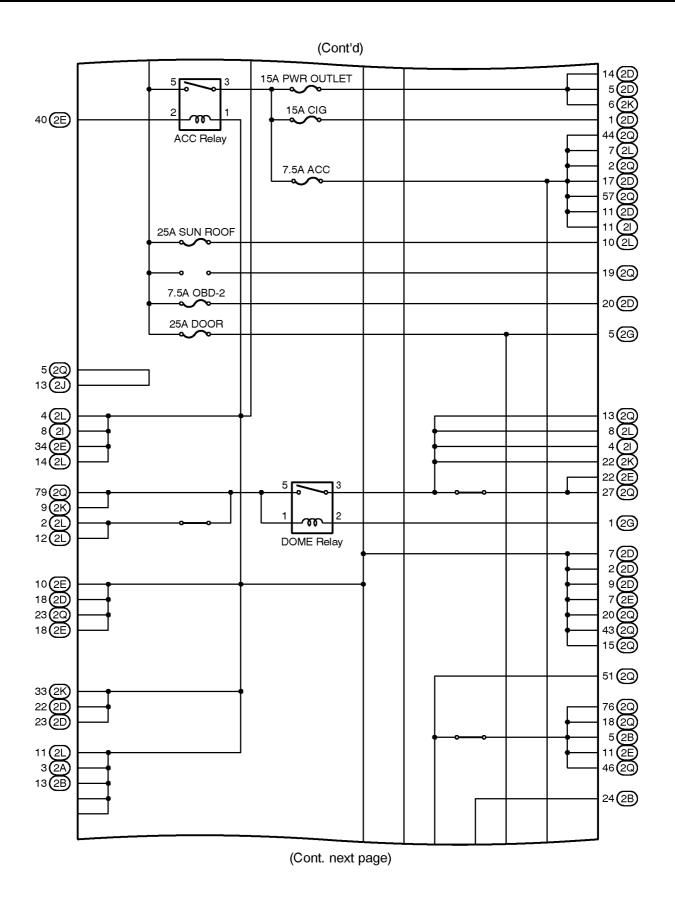


34

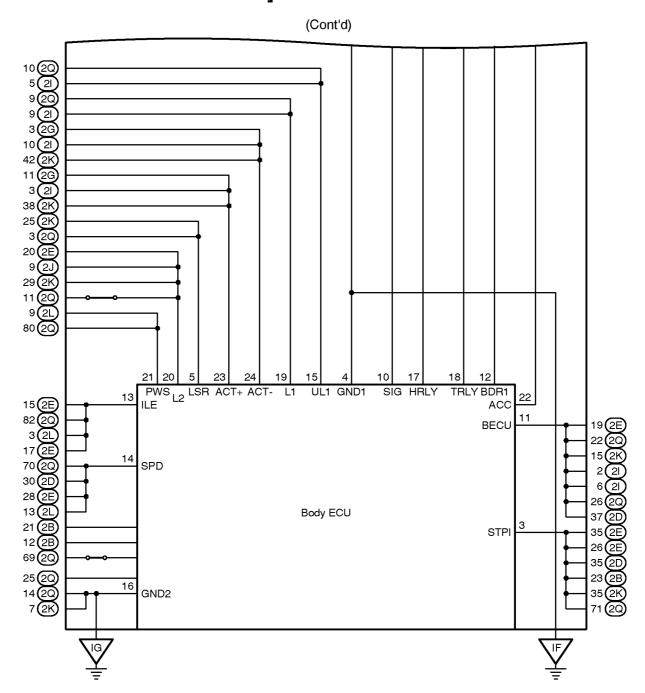


[Cowl Side J/B LH Inner Circuit]





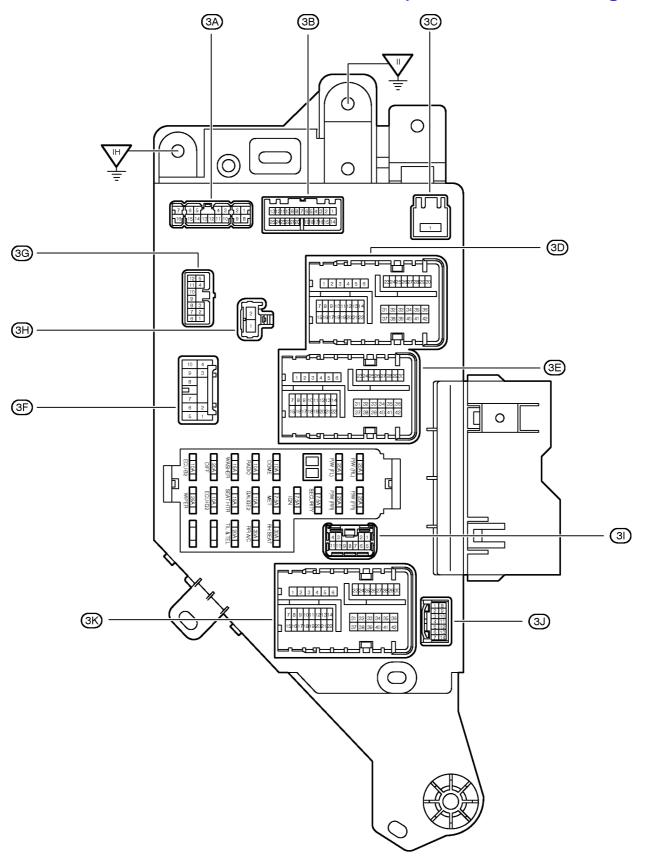
[Cowl Side J/B LH Inner Circuit]

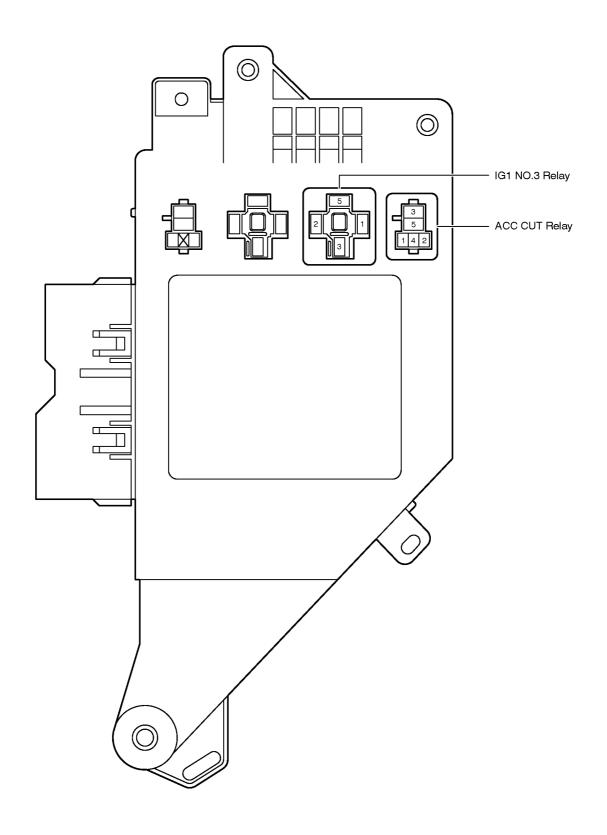


: Cowl Side J/B RH

Right Kick Panel (See Page 20)

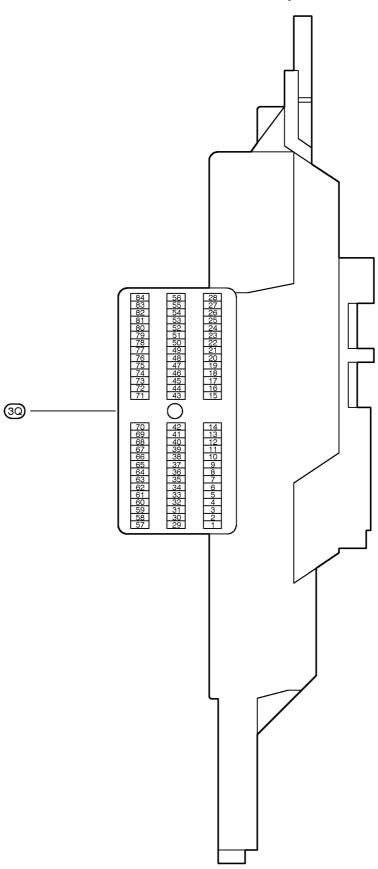
(Inner Circuit : See Page 46)

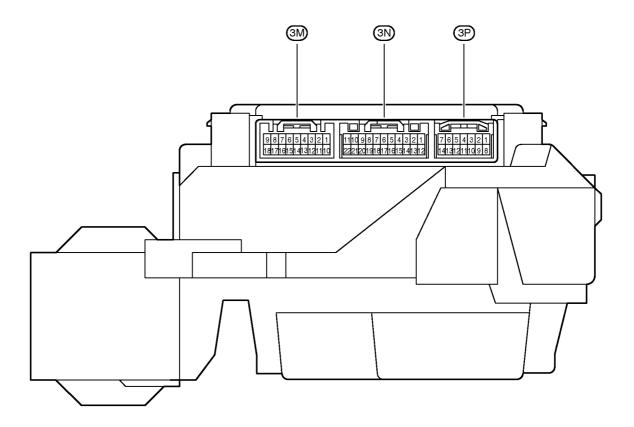




: Cowl Side J/B RH Right Kick Panel (See Page 20)

(Inner Circuit : See Page 46)

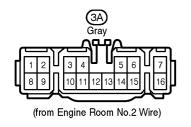


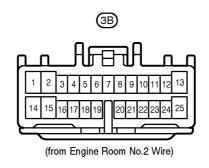


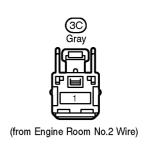
: Cowl Side J/B RH

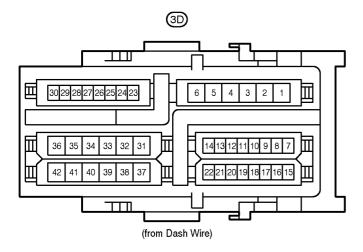
Right Kick Panel (See Page 20)

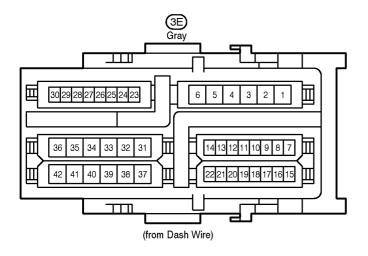
(Inner Circuit : See Page 46)

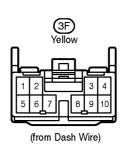




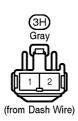






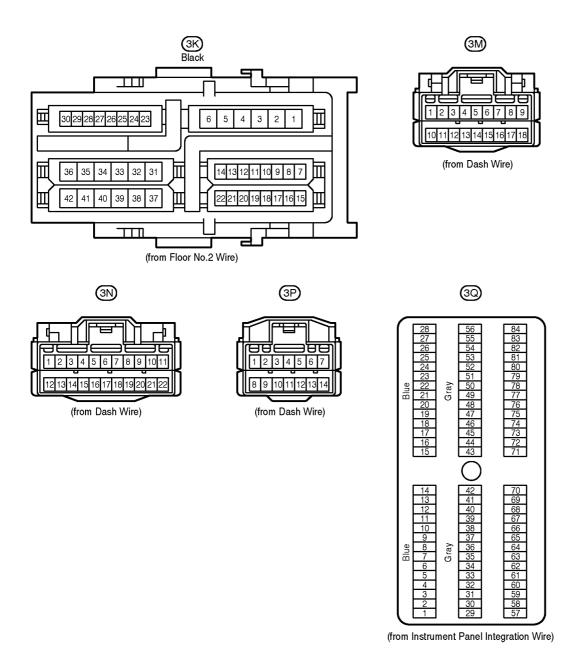




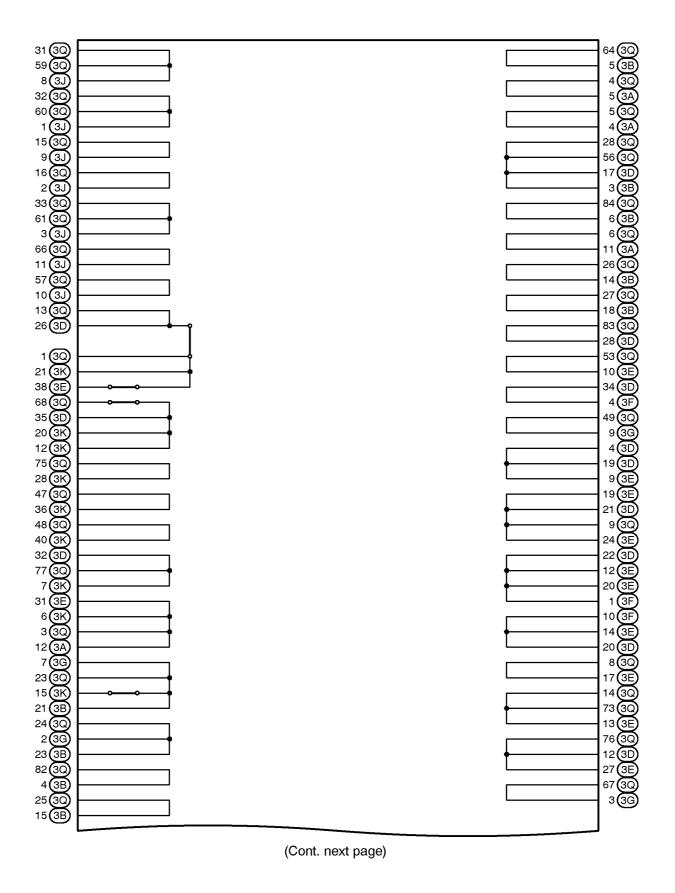


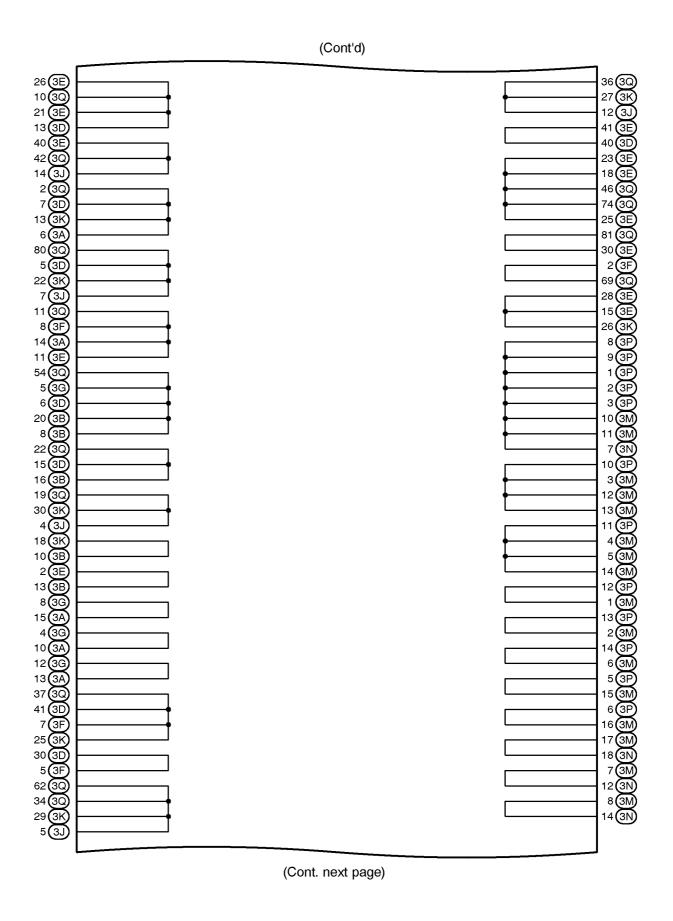




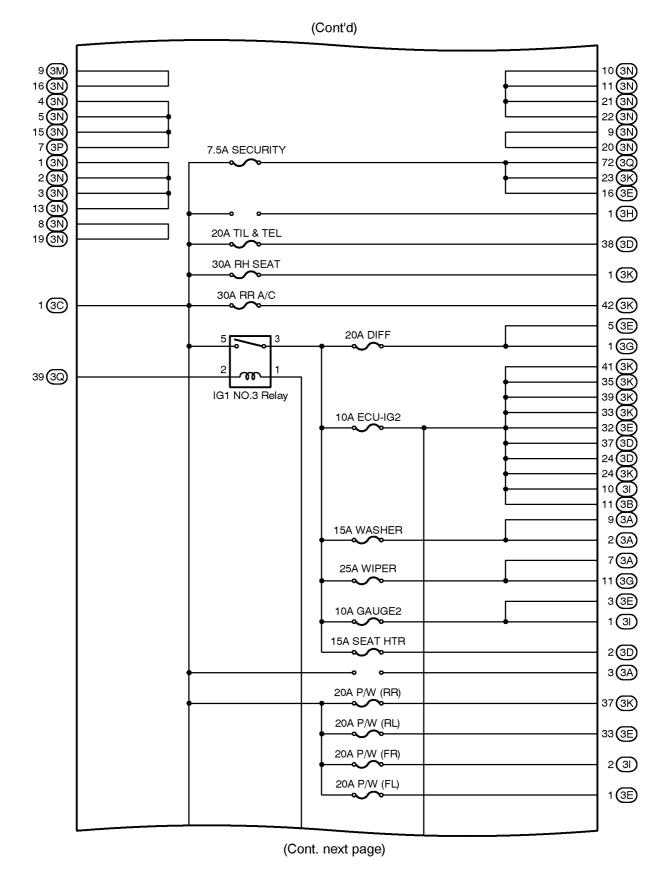


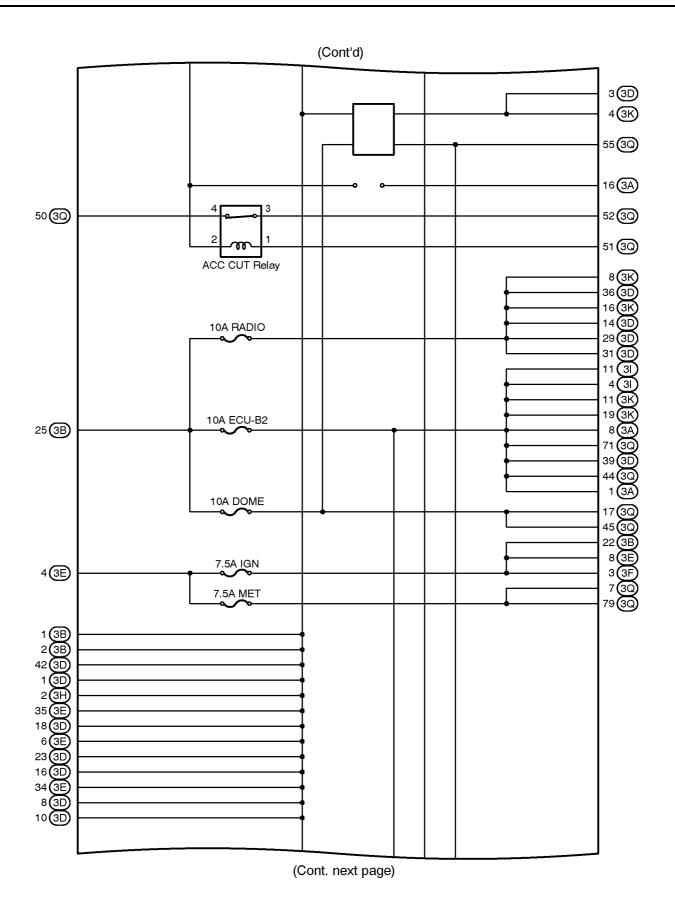
[Cowl Side J/B RH Inner Circuit]



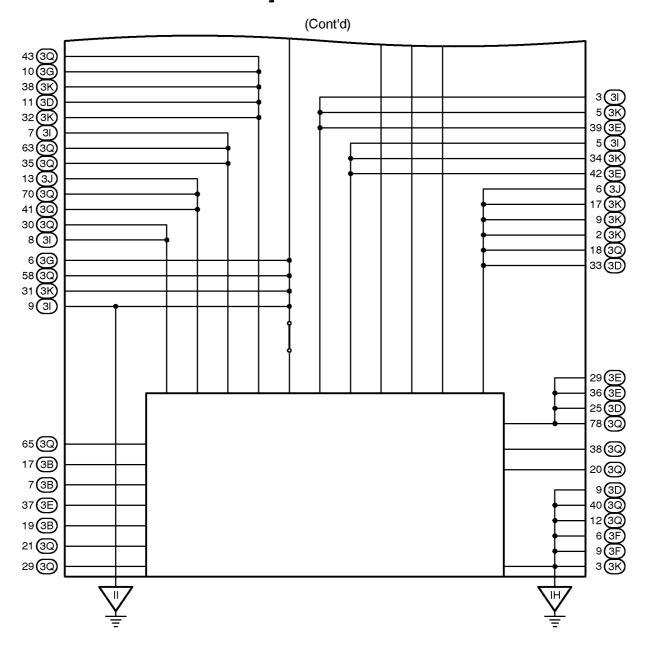


[Cowl Side J/B RH Inner Circuit]



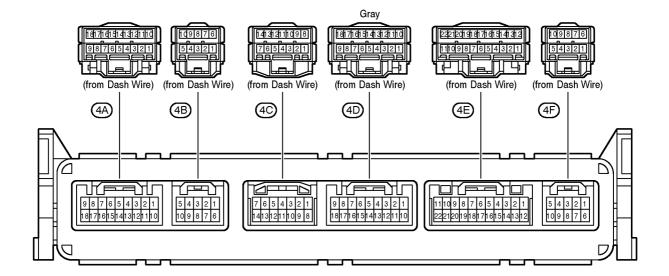


[Cowl Side J/B RH Inner Circuit]

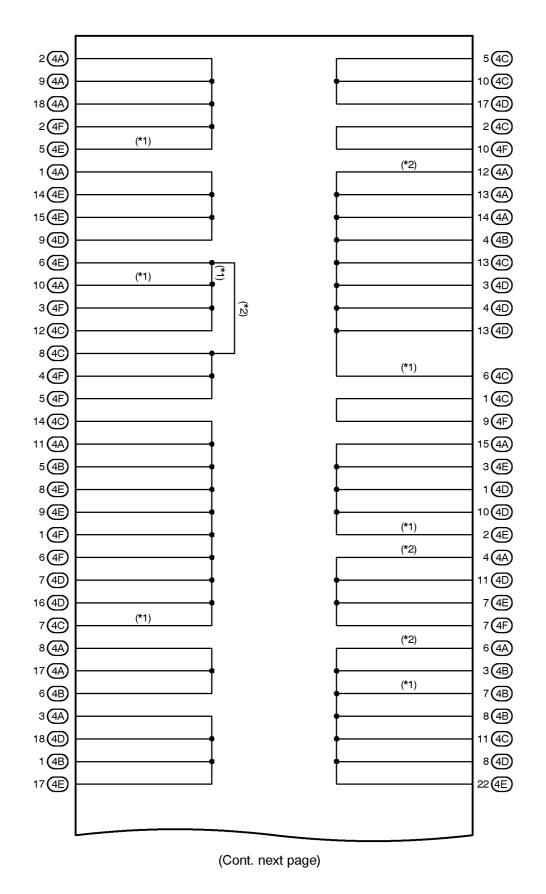


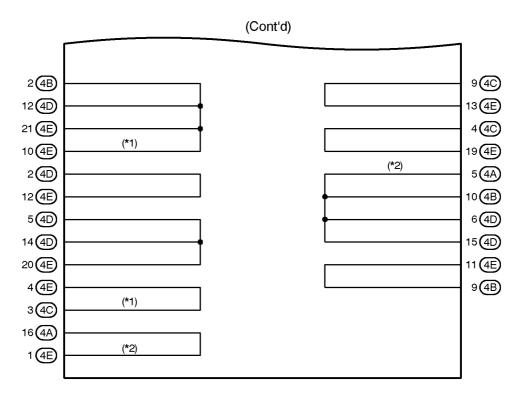
: J/B No.4

Instrument Panel Center (See Page 20)



[J/B No.4 Inner Circuit]

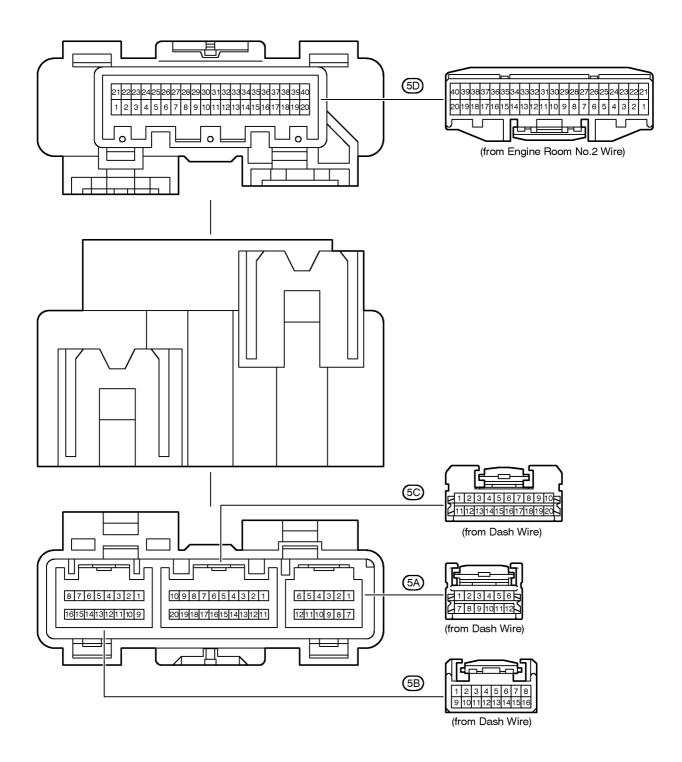




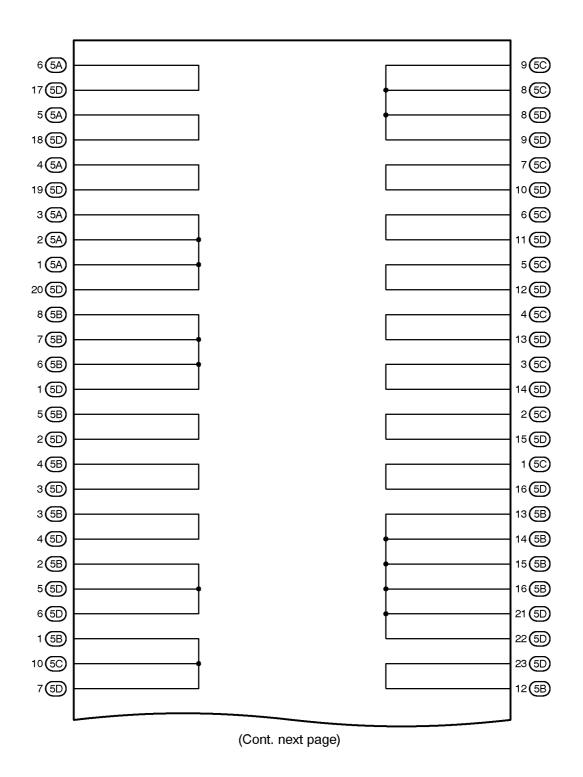
^{* 1:}w/ Navigation System * 2:w/o Navigation System

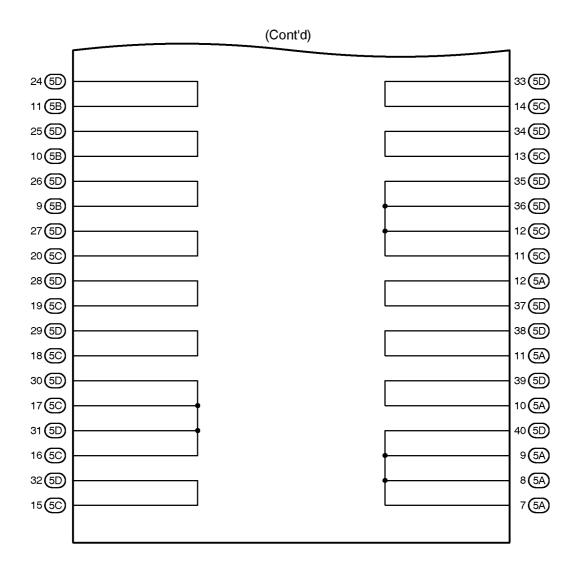
O: J/B No.5

Behind the Combination Meter (See Page 20)



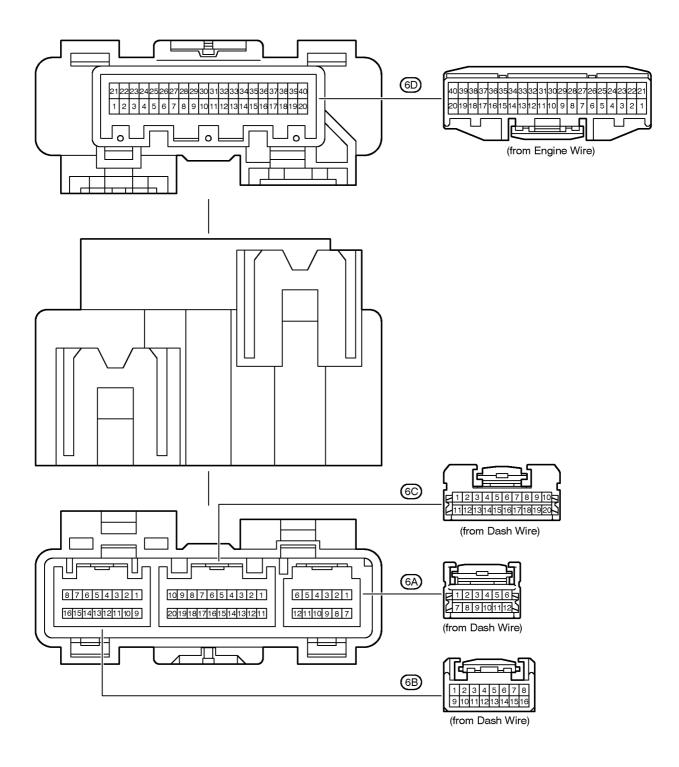
[J/B No.5 Inner Circuit]



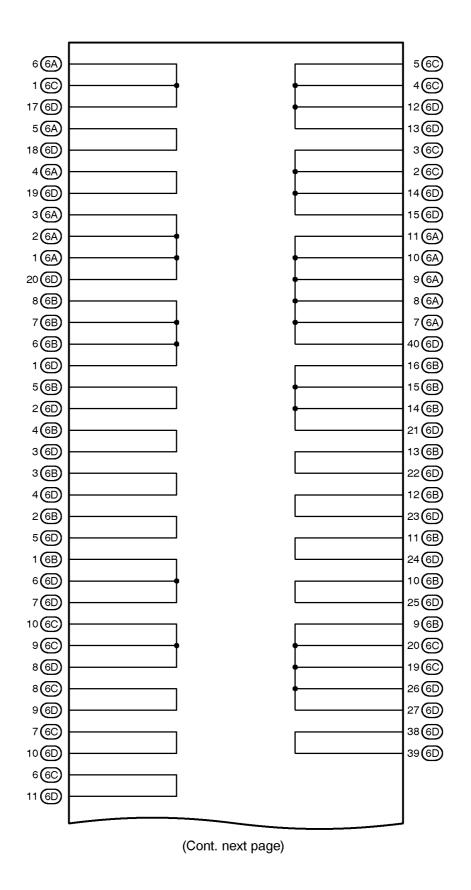


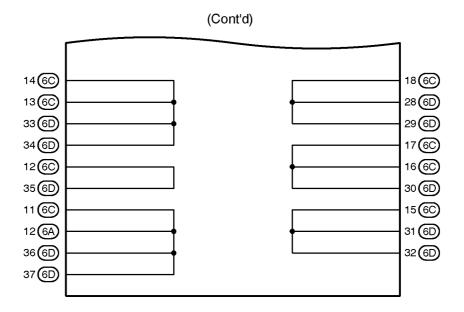
O: J/B No.6

Behind the Glove Box (See Page 20)



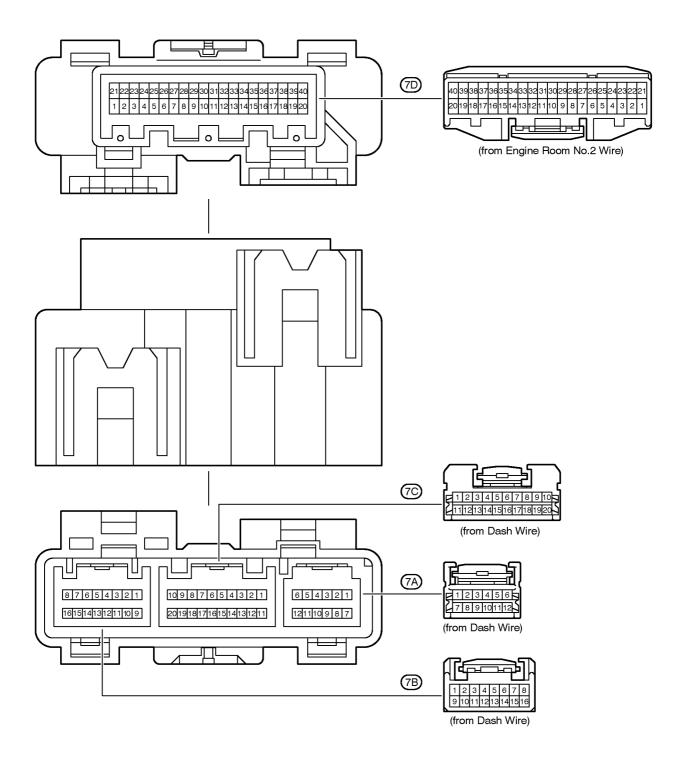
[J/B No.6 Inner Circuit]



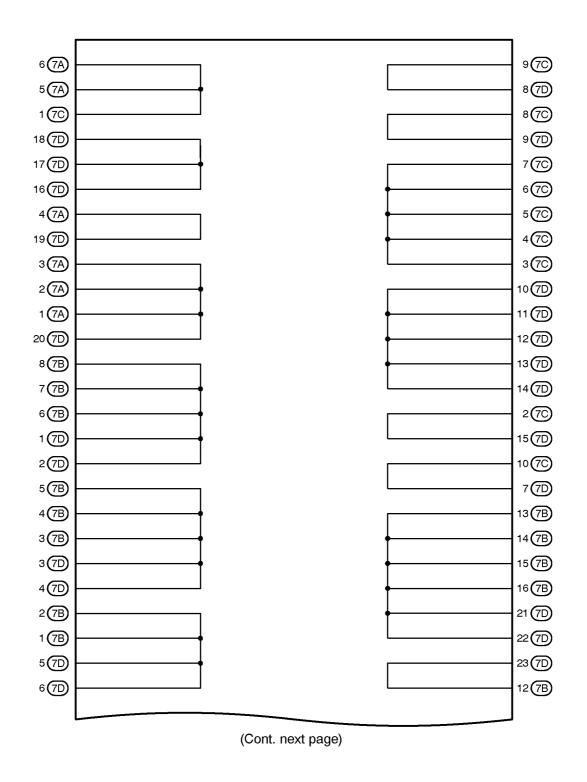


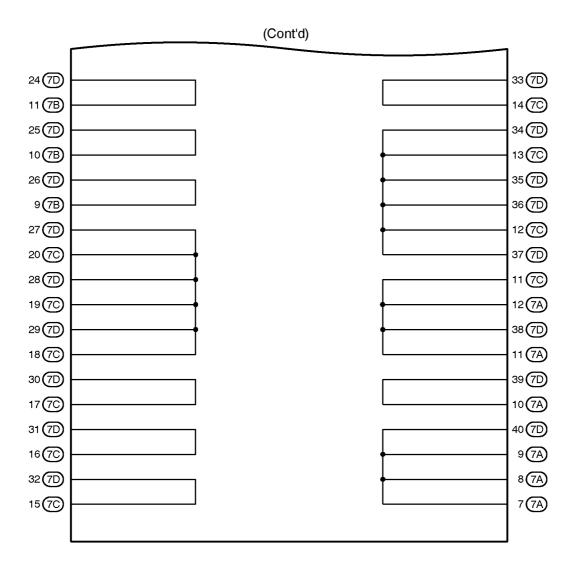
O: J/B No.7

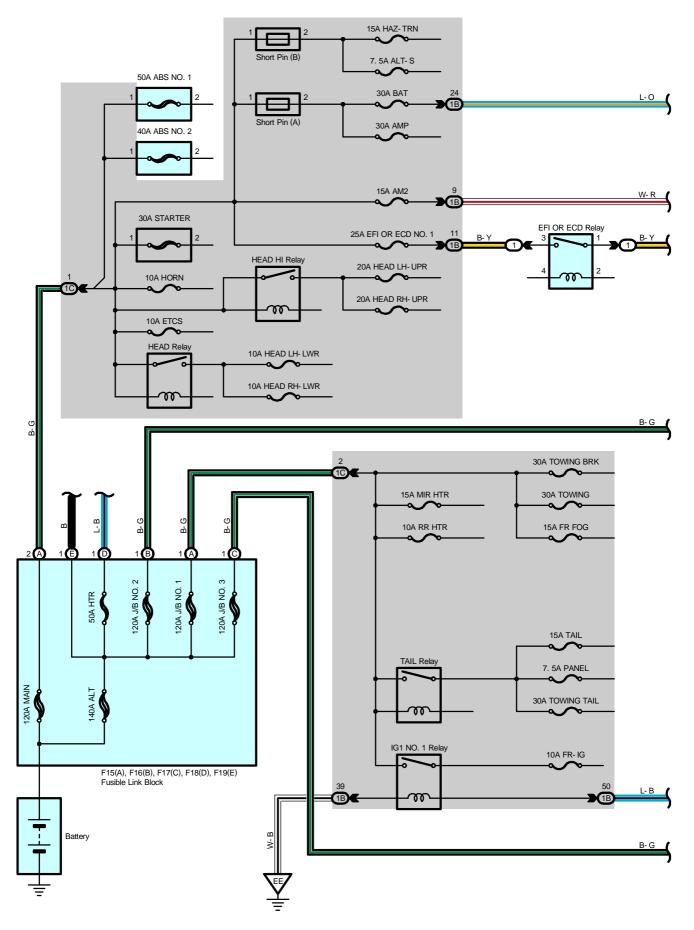
Behind the Glove Box (See Page 20)

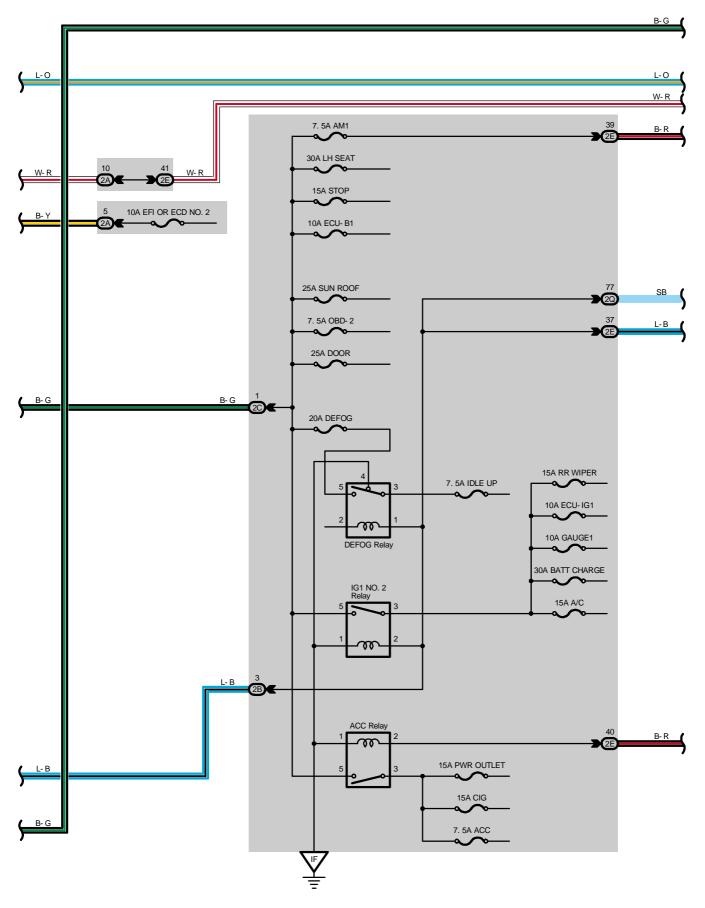


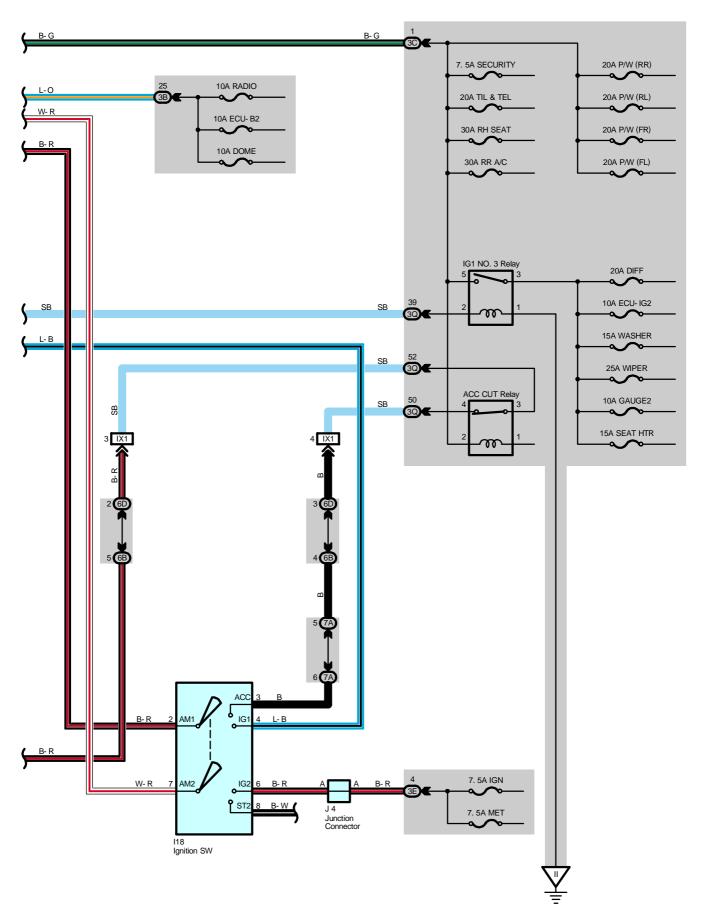
[J/B No.7 Inner Circuit]











Service Hints

I18 Ignition SW

2-3: Closed with ignition SW at ACC or ON position
2-4: Closed with ignition SW at ON or ST position
7-6: Closed with ignition SW at ON or ST position
7-8: Closed with ignition SW at ST position

: Parts Location

Code		See Page	Code		See Page	Code	See Page
F15	Α	68	F18	D	68	J4	71
F16	В	68	F19	Е	68		
F17	С	68	I1	8	70		

: Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)
ĺ	1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

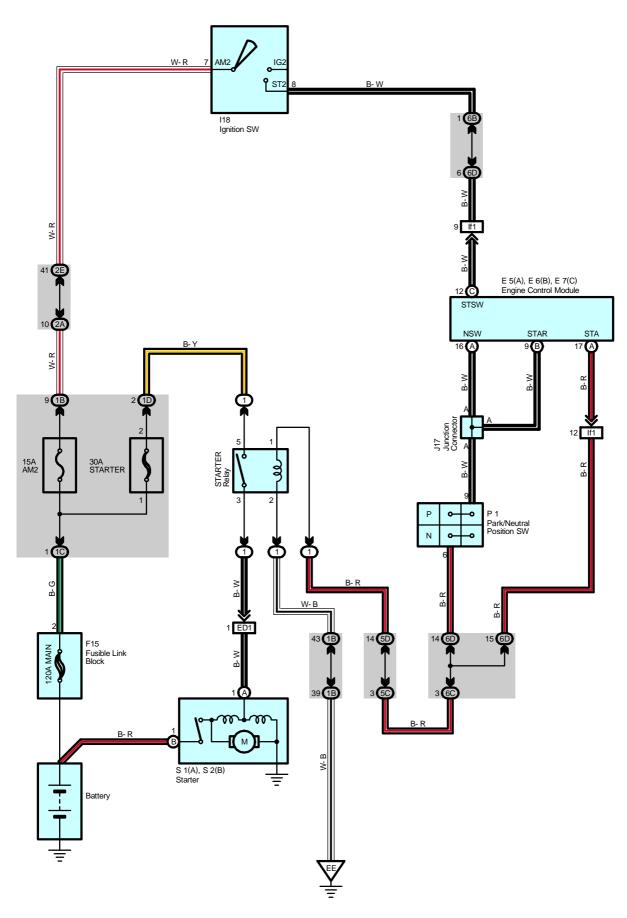
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	24	Engine Beam No 2 Wire and Engine Beam I/P (Engine Compartment Left)			
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2A					
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2C					
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3B	40	Engine Room No 2 Wire and Coul Side I/R RH (Pight Kigk Danel)			
3C	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
6B	60	Dash Wire and J/B No.6 (Behind the Grove Box)			
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)			
7A	64	Dash Wire and J/B No.7 (Behind the Glove Box)			

: Connector Joining Wire Harness and Wire Harness

Code	de See Page Joining Wire Harness and Wire Harness (Connector Location)	
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)

: Ground Points

Code	See Page	Ground Points Location
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH



Service Hints

I18 Ignition SW

7-8 : Closed with ignition SW at ST position

P1 Park/Neutral Position SW

6-9 : Closed with A/T shift lever in P or N position

S1 (A), S2 (B) Starter

Points closed with Park/Neutral position SW at P or N position and ignition SW at ST position

: Parts Location

Code		See Page	See Page Code See Page		Code		See Page
E5	Α	70	F15	68	Р	1	69
E6	В	70	l18	70	S1	Α	69
E7	С	70	J17	71	S2	В	69

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

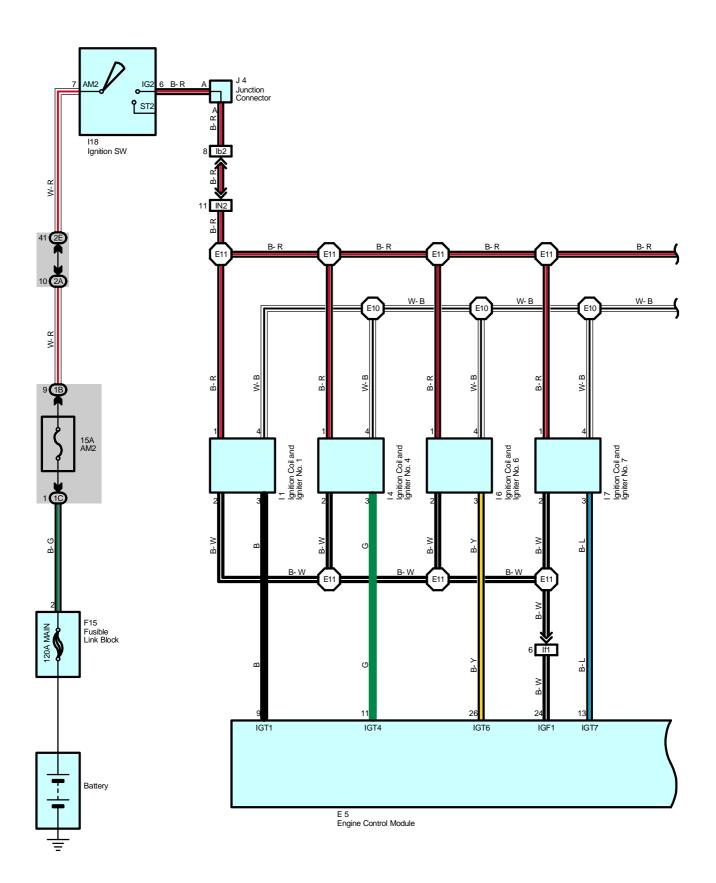
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B		
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6B	60	Doch Wire and I/D No C /Dehind the Crove Dov)
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)

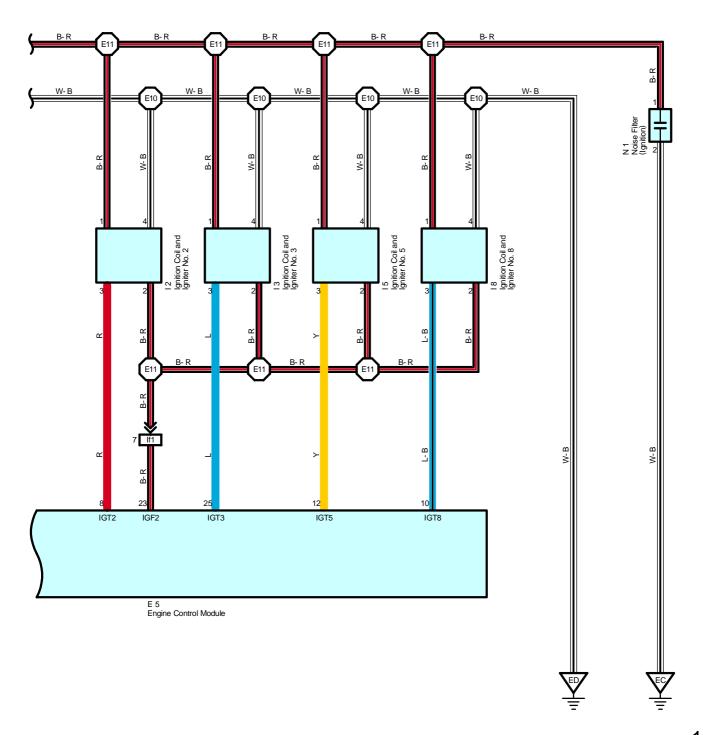
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED1	76	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)
lf1	84	Engine Wire and Engine Wire (Behind the Glove Box)

: Ground Points

Ī	Code	See Page	Ground Points Location
Ī	EE	76	Front Left Side of Fender Apron





Ignition

Service Hints

I18 Ignition SW

7-6 : Closed with ignition SW at ON or ST position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
E5	70	14	69	l18	70
F15	68	15	69	J4	71
I1	69	16	69	N1	69
12	69	17	69		
13	69	18	69		

0

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1B	24	Engine Beem No 2 Wire and Engine Beem I/D /Engine Compartment Left)	
1C	74	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)	
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)	
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IN2	80	ngine Wire and Dash Wire (Behind the Glove Box)	
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)	
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)	

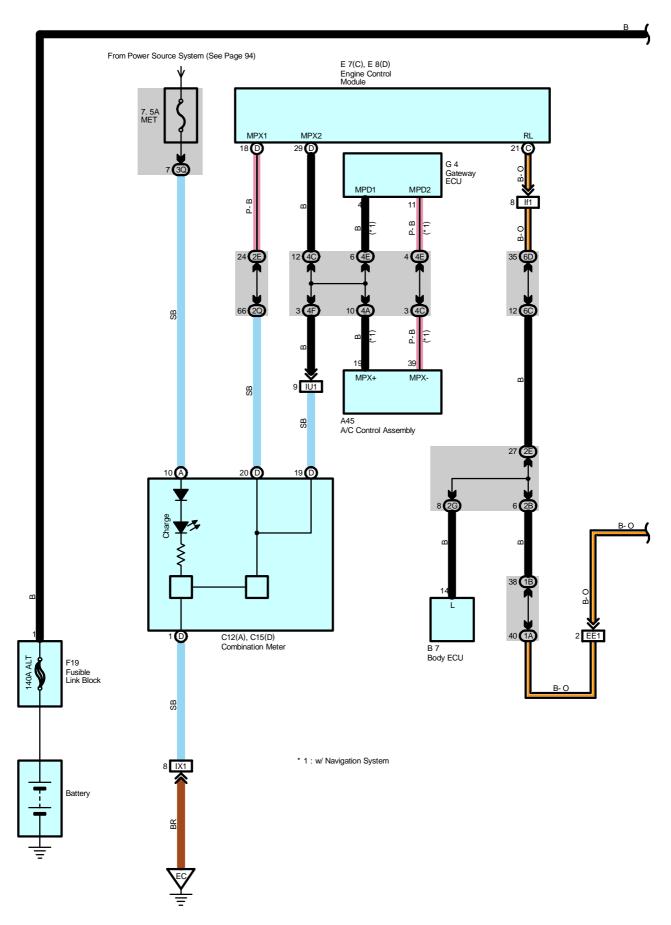
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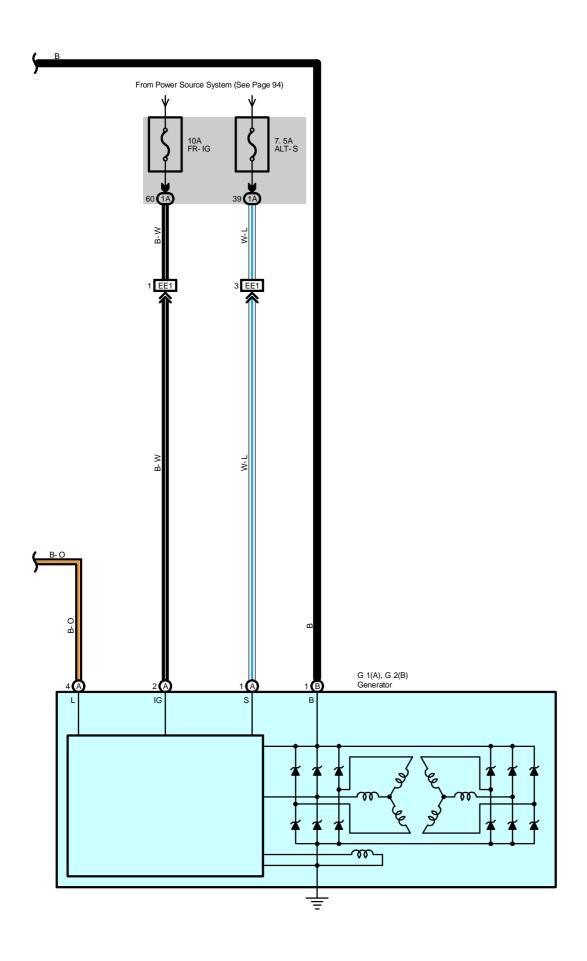
: Ground Points

Code	See Page	Ground Points Location		
EC	76	Rear Bank of Right Cylinder Head		
ED	76	Rear Bank of Left Cylinder Head		

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire		76	Engine Wire





Charging

Service Hints

G2 Generator

1-Ground: 13.2-14.0 volts with engine running at 5000 rpm and 115°C (239°F)

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A	45	70	E7	С	70	G2	В	68
B7		70	E8	D	70	G4		70
C12	Α	70	F19		68			
C15	D	70	G1	Α	68			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	20	Dook Wire and Coul Side I/D LLL /Left Kiek Bonel			
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A	4A				
4C	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
4E	52				
4F					
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)			
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)			

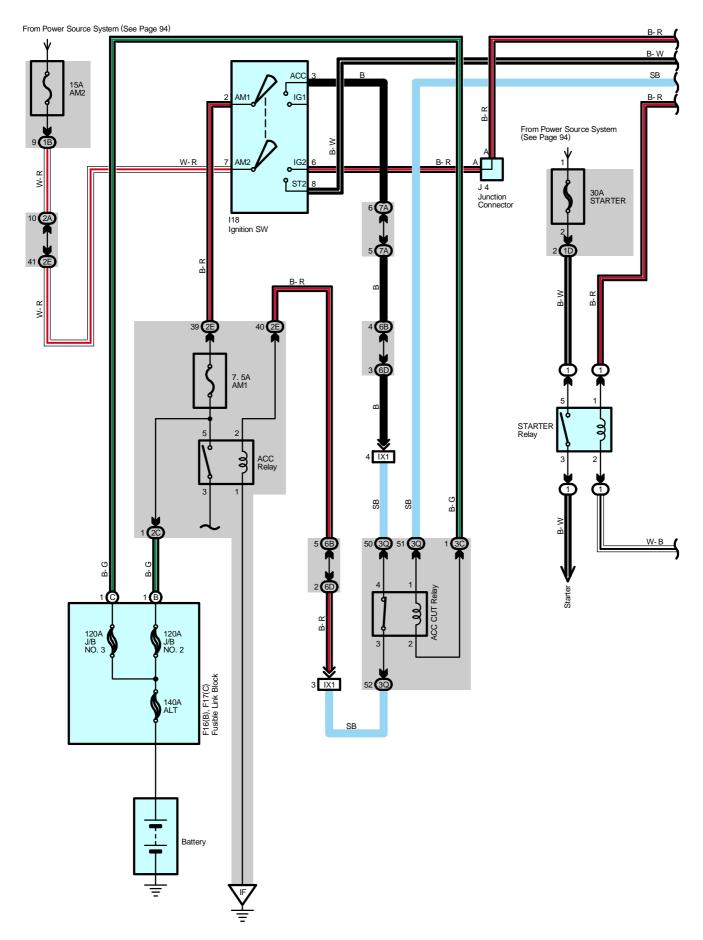
: Connector Joining Wire Harness and Wire Harness

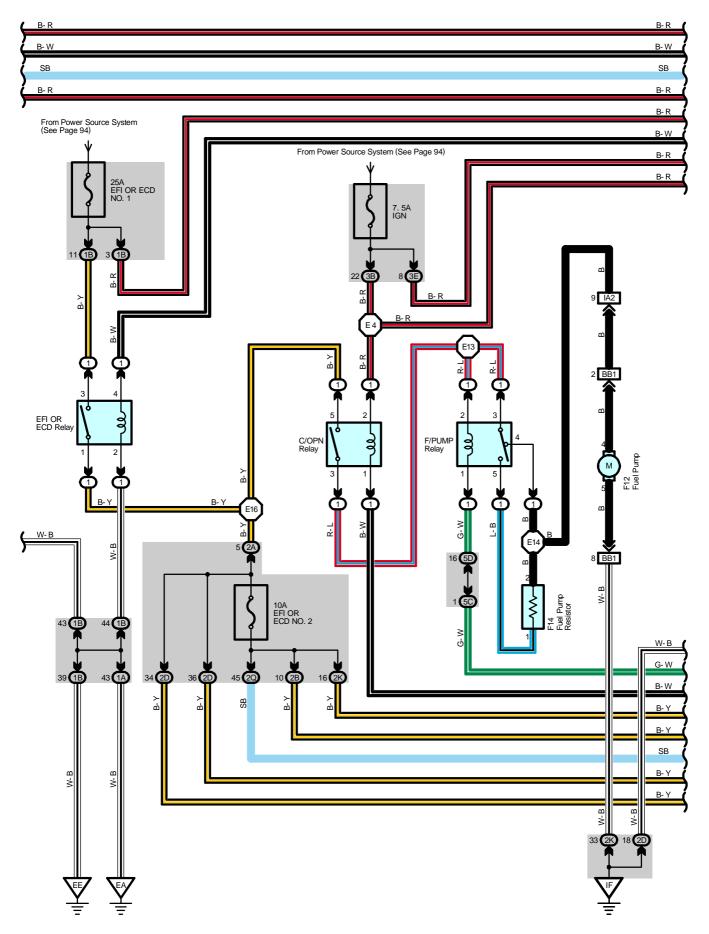
Code	See Page	See Page Joining Wire Harness and Wire Harness (Connector Location)	
EE1	76	6 Engine Room Main Wire and Alternator Wire (Near the Battery)	
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)	
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)	

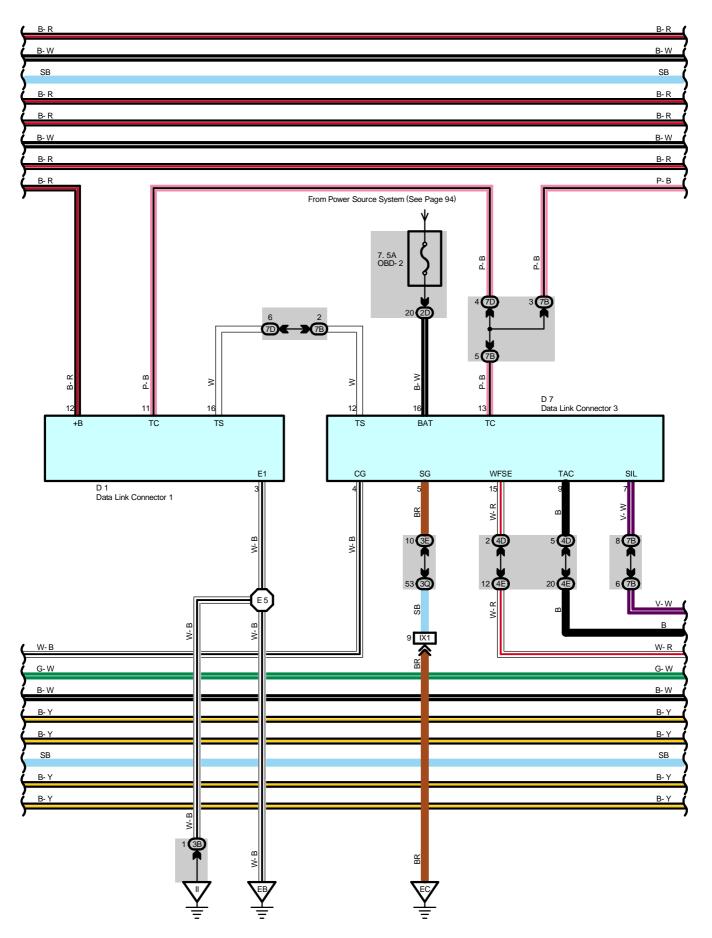
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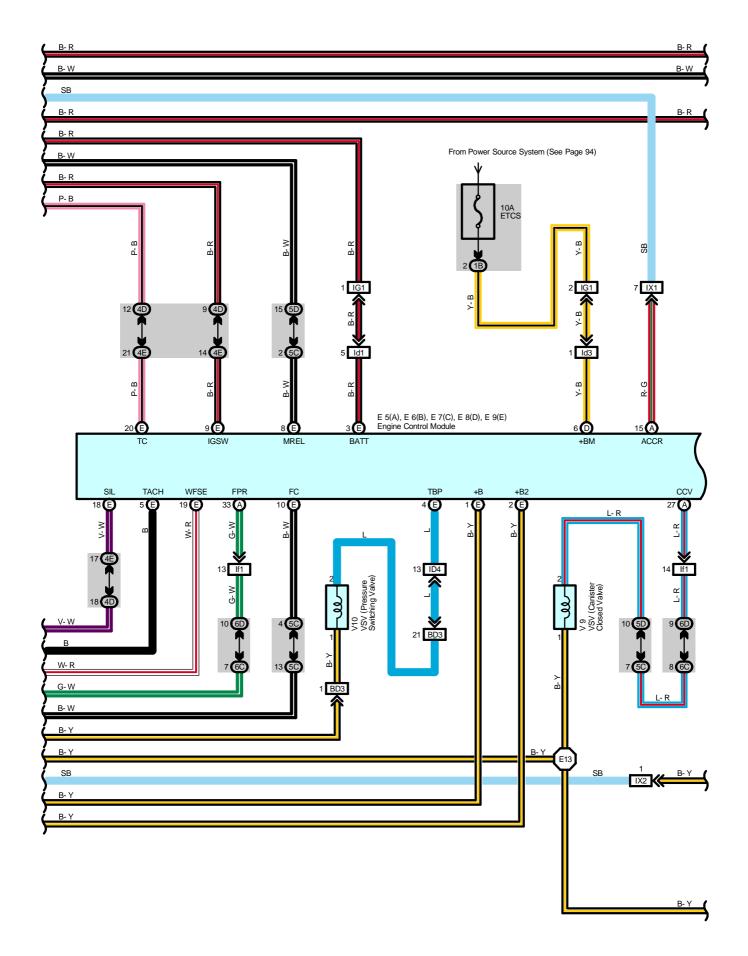
: Ground Points

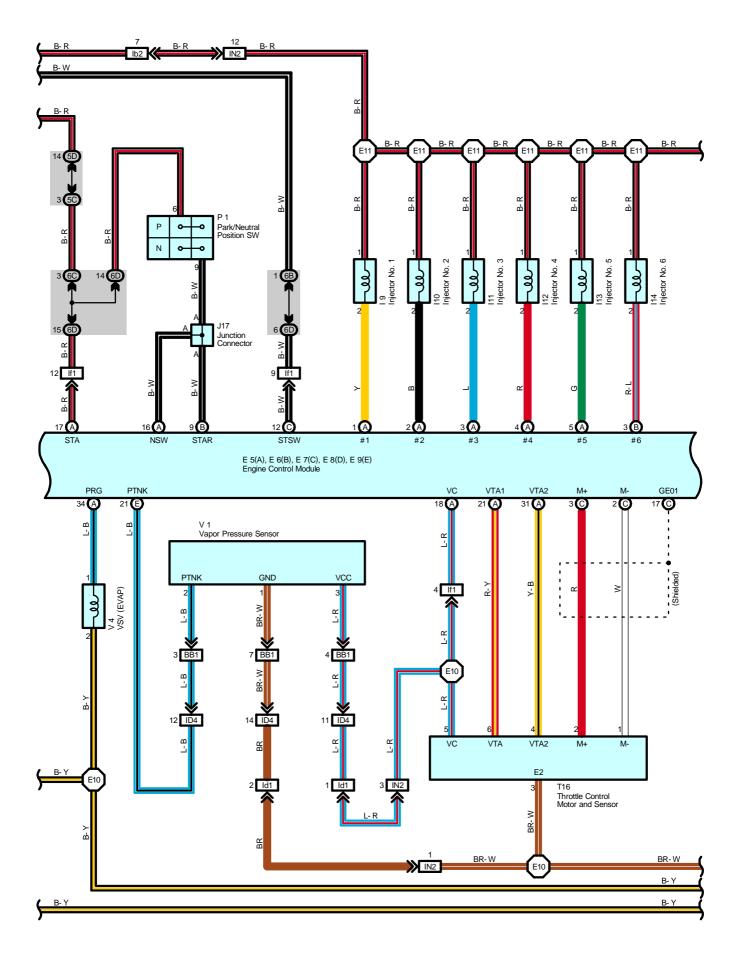
Code	See Page	Ground Points Location	
EC	76	Rear Bank of Right Cylinder Head	

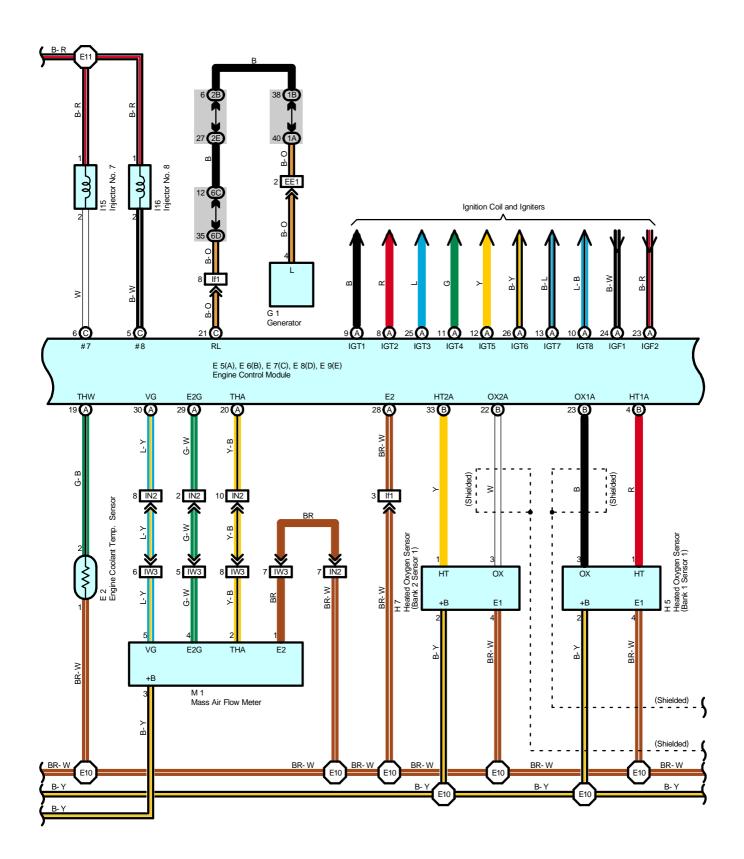


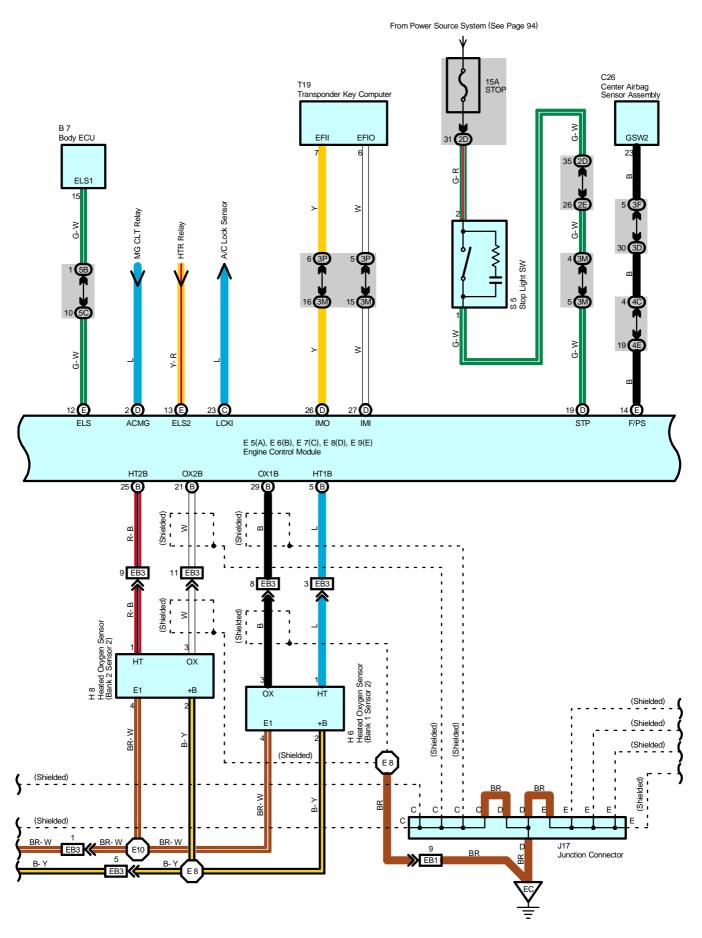


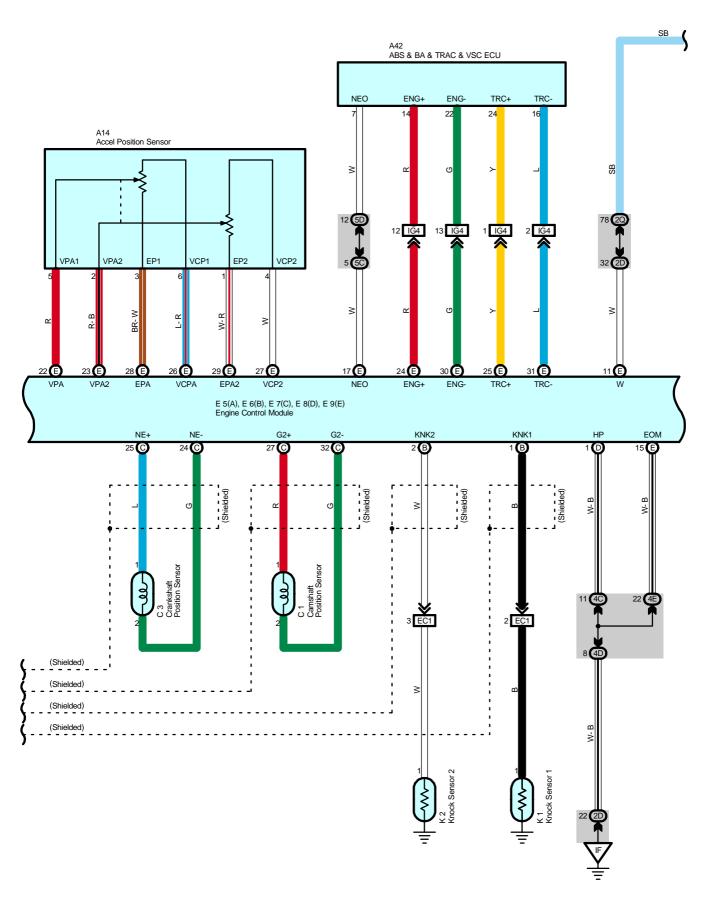


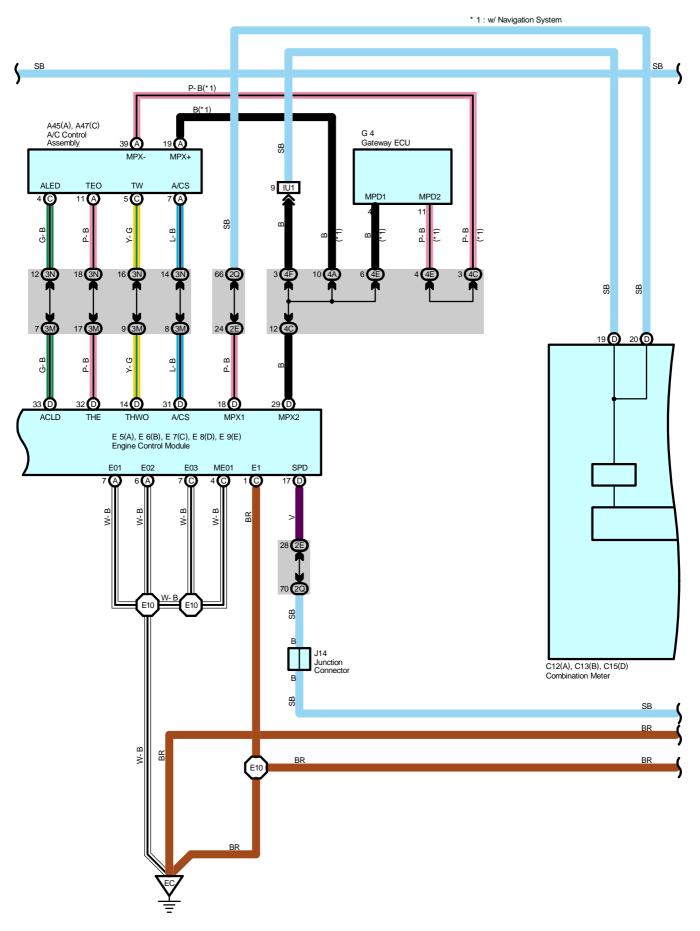


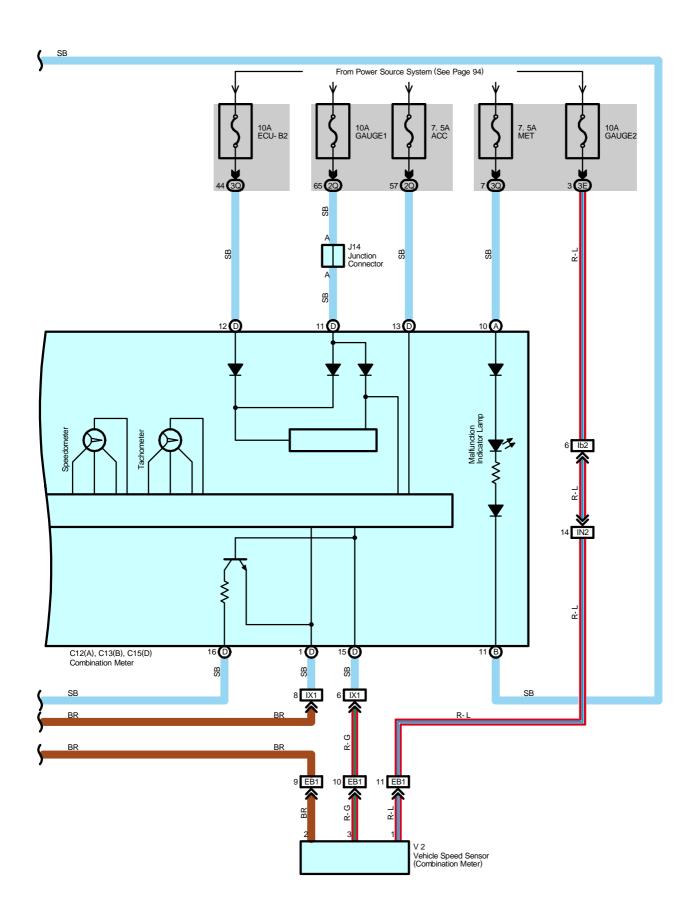












Engine Control

System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

1. Input Signals

(1) Engine coolant temp. signal circuit

The engine coolant temp. sensor detects the engine coolant temp. and has a built-in thermistor with a resistance which varies according to the engine coolant temp. The engine coolant temp. is input into TERMINAL THW of the engine control module as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine control module.

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust emission is detected and is input as a control signal from the heated oxygen sensors to TERMINALS OX1A, OX1B, OX2A, OX2B of the engine control module.

(4) RPM signal circuit

The camshaft position is detected by the camshaft position sensor and is input into TERMINAL G2+ of the engine control module as a control signal. Also, the engine RPM is detected by the crankshaft position sensor and the signal is input into TERMINAL NE+ of the engine control module.

(5) Throttle position sensor signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1, VTA2 of the engine control module.

(6) Vehicle speed circuit

The vehicle speed sensor (Combination meter) detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine control module via the combination meter.

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. When the ignition SW is turned on, the voltage for engine control module start up power supply is applied through the EFI OR ECD relay, to TERMINALS +B, +B2 of the engine control module. The current from the IGN fuse flows to TERMINAL IGSW of the engine control module, and voltage is constantly applied to TERMINAL +BM.

(8) Intake air volume signal circuit

The intake air volume is detected by the mass air flow meter, and is input as a control signal to TERMINAL VG of the engine control module.

(9) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not, and the signal is input into TERMINAL STP of the engine control module as a control signal.

(10) Starter signal circuit

To confirm whether the engine is cranking, the voltage applied to the starter motor when the engine is cranking is detected, and is input into TERMINAL STA of the engine control module as a control signal.

(11) Engine knock signal circuit

Engine knocking is detected by the knock sensors, and is input into TERMINALS KNK1, KNK2 of the engine control module as a control signal.

2. Control System

* SFI system

The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #1, #2, #3, #4, #5, #6, #7, #8 to operate the injector (Fuel injection). The SFI system controls the fuel injection by the engine control module in response to the driving conditions.

* ESA system

The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data memorized in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5, IGT6, IGT7, IGT8, and these signals control the igniter to provide the best ignition timing.

* Heated oxygen sensor heater control system

The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the heated oxygen sensors to improve their detection performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINALS HT1A, HT1B, HT2A, HT2B to control the heater.

* Fuel pump control system

The engine control module supplies current to TERMINAL FPR, and controls the operation speed of the fuel pump by the F/PUMP relay.

* ACIS

The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.

* ETCS-i

The ETCS-i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.

3. Diagnosis System

When there is a malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed on the malfunction indicator lamp.

4. Fail-Safe System

When a malfunction has occurred in any system, there is a possibility of causing engine trouble due to continued control based on that system. In that case, the fail-safe system either controls the system using the data (Standard values) recorded in the engine control module memory, or else stops the engine.

Service Hints

E2 Engine Coolant Temp. Sensor

1-2 : Approx. 15.0 k Ω (-20°C, -4°F) : Approx. 2.45 k Ω (20°C, 68°F)

: Approx. $0.32 \text{ k}\Omega (80^{\circ}\text{C}, 176^{\circ}\text{F})$

E5 (A), E7 (C), E8 (D), E9 (E) Engine Control Module

BATT-E1: Always 9.0-14.0 volts +BM-E1: Always 9.0-14.0 volts

IGSW-E1: 9.0-14.0 volts with ignition SW at ON or ST position +B, +B2-E1: 9.0-14.0 volts with ignition SW at ON or ST position

VC-E2: 4.5-5.5 volts with ignition SW on

VTA2-E2: 2.0-2.9 volts with ignition SW on and accelerator pedal released

: 4.6-5.1 volts with ignition SW on and accelerator pedal depressed

VTA1-E2: 0.4-1.0 volts with ignition SW on and accelerator pedal released

: 3.2-4.8 volts with ignition SW on and accelerator pedal depressed

THA-E2: 0.5-3.4 volts with idling, intake air temp. 20°C (68°F) THW-E2: 0.2-1.0 volts with idling, engine coolant temp. 80°C (176°F)

W-E1: 9.0-14.0 volts with idling

: Below 3.0 volts with ignition SW on

Engine Control

: Parts Location

de	See Page	Code		See Page	Code	See Page
14	70	E9	Е	70	I16	69
12	70	F12		72	I18	70
Α	70	F′	14	68	J4	71
С	70	F16	В	68	J14	71
7	70	F17	С	68	J17	71
1	68	G	1	68	K1	69
3	68	G	4	70	K2	69
Α	70	H5		69	M1	69
В	70	Н	6	69	P1	69
D	70	H7		69	S 5	71
26	70	H8		69	T16	69
1	68	19		69	T19	71
7	70	l10		69	V1	73
2	68	l11		69	V2	69
Α	70	l12		69	V4	69
В	70	l1	3	69	V9	69
С	70	I1	4	69	V10	73
D	70	l1	5	69		
	A C C 7 1 1 3 A B D D 26 1 7 2 A B C C	14 70 12 70 A 70 C 70 7 70 1 68 3 68 A 70 B 70 D 70 26 70 1 68 7 70 2 68 A 70 B 70 C 70 C 70	14 70 E9 42 70 F2 A 70 F16 7 70 F17 1 68 G 3 68 G A 70 H B 70 H D 70 H 26 70 H 1 68 I! 7 70 I1 2 68 I1 A 70 I1 B 70 I1 B 70 I1 C 70 I1	14 70 E9 E 42 70 F12 A 70 F16 B 7 70 F17 C 1 68 G1 3 68 G4 A 70 H5 B 70 H6 D 70 H7 26 70 H8 1 68 19 7 70 110 2 68 111 A 70 112 B 70 113 C 70 114	14 70 E9 E 70 42 70 F12 72 A 70 F14 68 C 70 F16 B 68 7 70 F17 C 68 1 68 G1 68 3 68 G4 70 A 70 H5 69 B 70 H6 69 D 70 H7 69 26 70 H8 69 1 68 19 69 7 70 110 69 2 68 111 69 A 70 112 69 B 70 113 69 C 70 114 69	14 70 E9 E 70 I16 42 70 F12 72 I18 A 70 F14 68 J4 C 70 F16 B 68 J14 7 70 F17 C 68 J17 1 68 G1 68 K1 3 68 G4 70 K2 A 70 H5 69 M1 B 70 H6 69 P1 D 70 H7 69 S5 26 70 H8 69 T16 1 68 19 69 T19 7 70 I10 69 V1 2 68 I11 69 V2 A 70 I12 69 V4 B 70 I14 69 V10

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)			
1	22	Engine Room R/B (Engine Compartment Left)			



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
1B							
1D	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)					
2A							
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)					
2C		, , ,					
2D	00	Dook Wise and Could Cide I/D LLL // off Viels Dane)					
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)					
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)					
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)					
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)					
3C	40	Engine Room No.2 Wife and Cowi Side 5/B RTT (Right Rick Lane)					
3D							
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)					
3F							
3M							
3N	43						
3P							
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)					
4A							
4C							
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)					
4E							
4F							
5B 5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)					
5C 5D	56						
6B	50	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter) Dash Wire and J/B No.6 (Behind the Grove Box)					
6C	60						
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)					
7A							
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)					
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)					

Engine Control

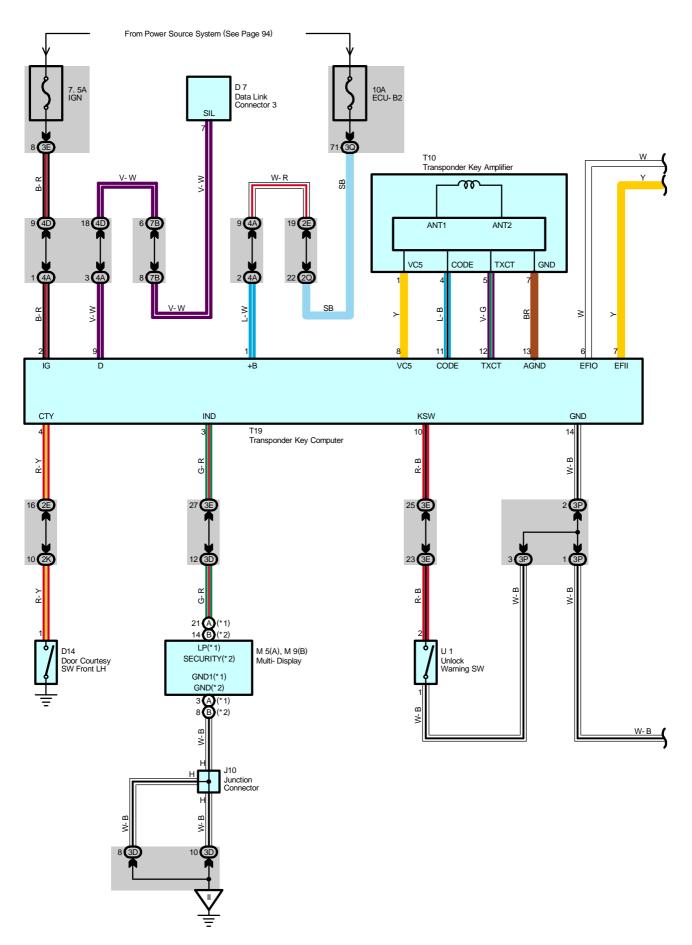
: Connector Joining Wire Harness and Wire Harness

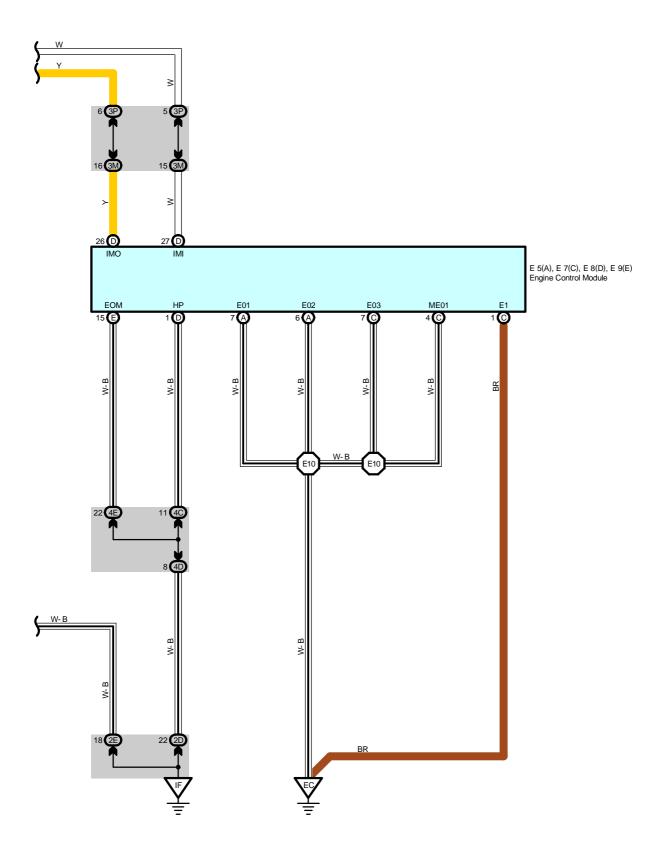
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EB1	70	Facing Mire and Transmission Mire (On the Transmission)				
EB3	76	Engine Wire and Transmission Wire (On the Transmission)				
EC1	76	Engine No.2 Wire and Engine Wire (On the Transmission)				
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)				
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)				
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)				
IG1	70	Facing Deep No 2 Wire and Deep Wire (Behind the Combination Mater)				
IG4	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)				
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)				
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IW3	82	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)				
IX1	00	Instrument Penal Interretion Wire and Engine Wire (Pakind the Claus Pey)				
IX2	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)				
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)				
ld1	0.4	Dock Wire and Dock Wire (Instrument Dock)				
ld3	84	Dash Wire and Dash Wire (Instrument Panel Center)				
lf1	84	Engine Wire and Engine Wire (Behind the Glove Box)				
BB1	86	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)				
BD3	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)				

: Ground Points

Code	See Page	Ground Points Location				
EA	76	Front Dight Cide of Fonder Annon				
EB	76	Front Right Side of Fender Apron				
EC	76	Rear Bank of Right Cylinder Head				
EE	76	Front Left Side of Fender Apron				
IF	78	Set Bolt of Cowl Side J/B LH				
II	78	Set Bolt of Cowl Side J/B RH				

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	
E4	76	Engine Room No.2 Wire	E11	76	Engine Wire	
E5	76	Engine Room No.2 Wife	E13			
E8	76	Transmission Wire	E14	76	Engine Room No.2 Wire	
E10	76	Engine Wire	E16			





Engine Immobiliser System

Service Hints

T19 Transponder Key Computer

1-Ground: Always approx. 12 volts

2-Ground: Approx. 12 volts with ignition SW at ON or ST position

14-Ground: Always continuity

: Parts Location

Code See Page Code See Page		Code		See Page				
D	7	70	E8	D	70	M9	В	71
D	14	72	E9	Е	70	T1	0	71
E5	Α	70	J1	10	71	T1	9	71
E7	С	70	M5	Α	71	U	1	71

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
2D	20	Dook Wise and Could Cide VD LLL (Left Viels Done)					
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)					
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)					
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)					
3D	40						
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)					
3M	42	Dash Wile and Cowi Side 3/B KH (Right Rick Pariet)					
3P	43						
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)					
4A							
4C	52	Doch Wire and I/D No. 4 (Instrument Donal Center)					
4D		Dash Wire and J/B No.4 (Instrument Panel Center)					
4E							
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)					

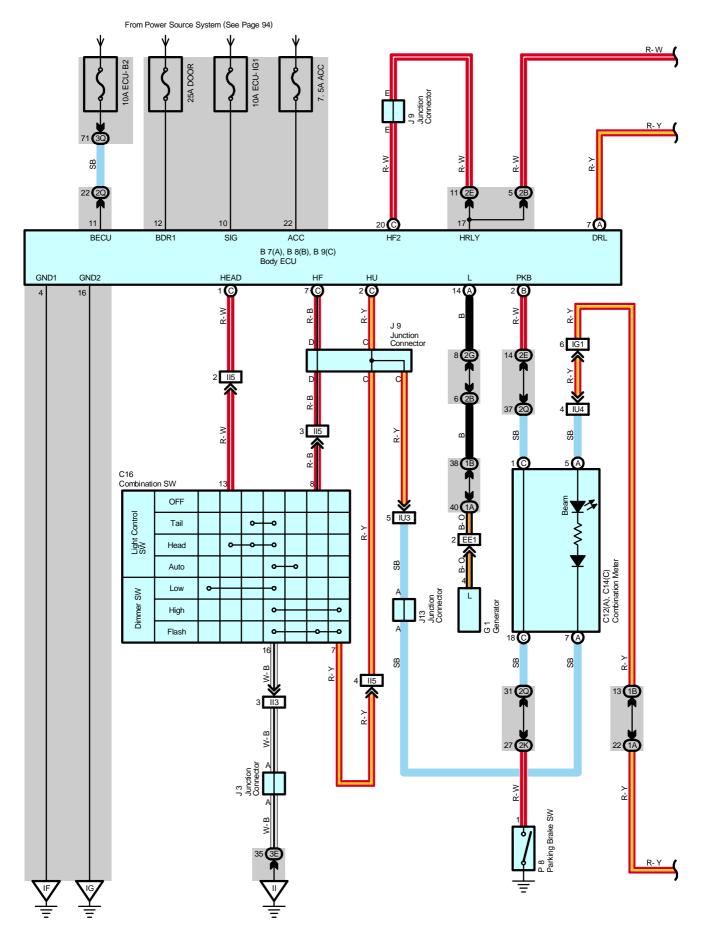
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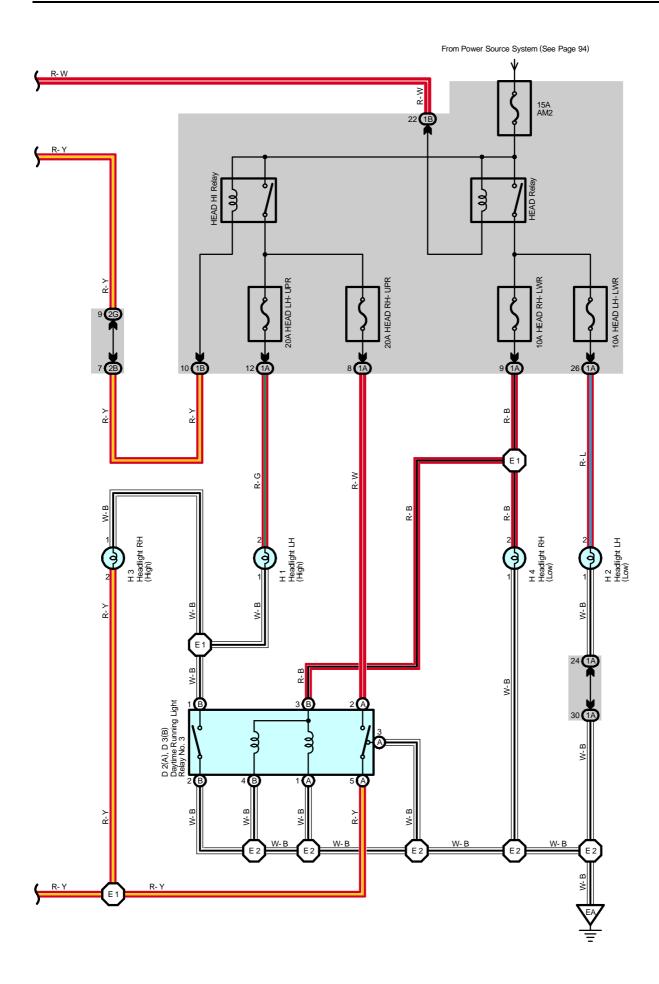
: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
П	78	Set Bolt of Cowl Side J/B RH



Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire			





Headlight

System Outline

Daytime Running Light Operation

When the engine is started, a signal from the generator is input into TERMINAL (A) 14 of the body ECU. At this time, if the parking brake lever is pulled up (Parking brake SW ON), the body ECU is not activated, and the daytime running light system does not operate.

When the parking brake lever is released (Parking brake SW OFF), a signal is input into TERMINAL (B) 2 of the body ECU. This activates the body ECU and the headlight turns on.

Service Hints

C16 Combination SW

13-16 : Closed with light control SW at HEAD position 8-16 : Closed with dimmer SW at FLASH position

7-16 : Closed with dimmer SW at HIGH or FLASH position

: Parts Location

Co	de	See Page	Code		Code		See Page	Code	See Page
B7	Α	70	D2	Α	68	H4	69		
B8	В	70	D3	В	68	J3	71		
B9	С	70	G	1	68	J9	71		
C12	Α	70	Н	1	69	J13	71		
C14	С	70	Н	2	69	P8	73		
C.	16	70	Η	3	69				

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
1B	24	ngine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)					
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)					
2E	20	Dook Wire and Could Side 1/D LLL (Left Viels Done)					
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)					
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)					
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)					
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)					
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)					

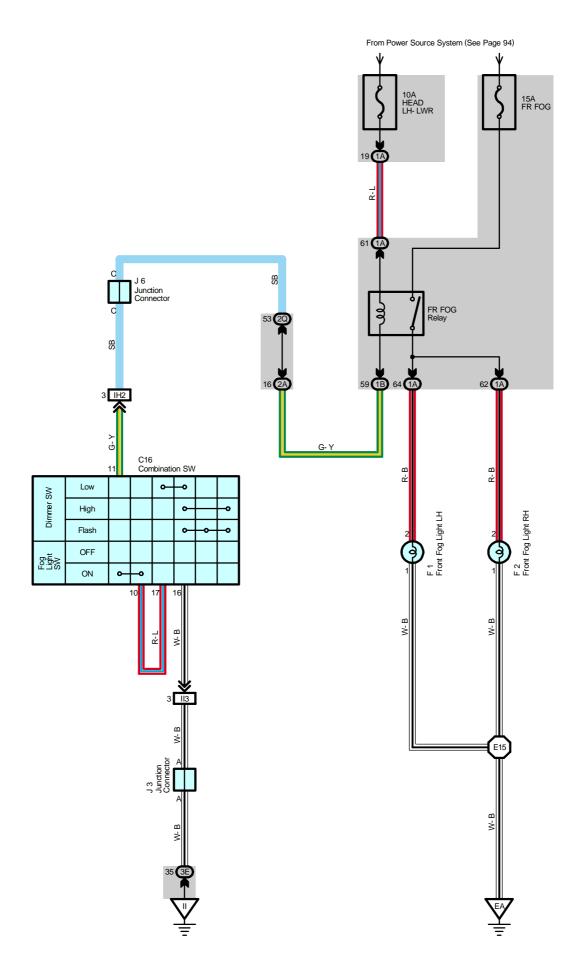
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EE1	76	ngine Room Main Wire and Alternator Wire (Near the Battery)			
IG1	78	gine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
II3	90	Doch Wire and Calumn Wire (Near the Ignition CIM)			
II5	80	Dash Wire and Column Wire (Near the Ignition SW)			
IU3	00	Instrument Danel Integration Wire and Deeb Wire (Debind the Clave Day)			
IU4	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			

Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
IF	70	Cat Palt of Caud Cida I/D I I I
IG	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	E1 76 Engine Room Main Wire		E2	76	Engine Room Main Wire



Service Hints

C16 Combination SW

11-Ground: Continuity with light control SW at HEAD position, dimmer SW at LOW position and fog light SW at ON position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C16	70	F2	68	J6	71
F1	68	J3	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

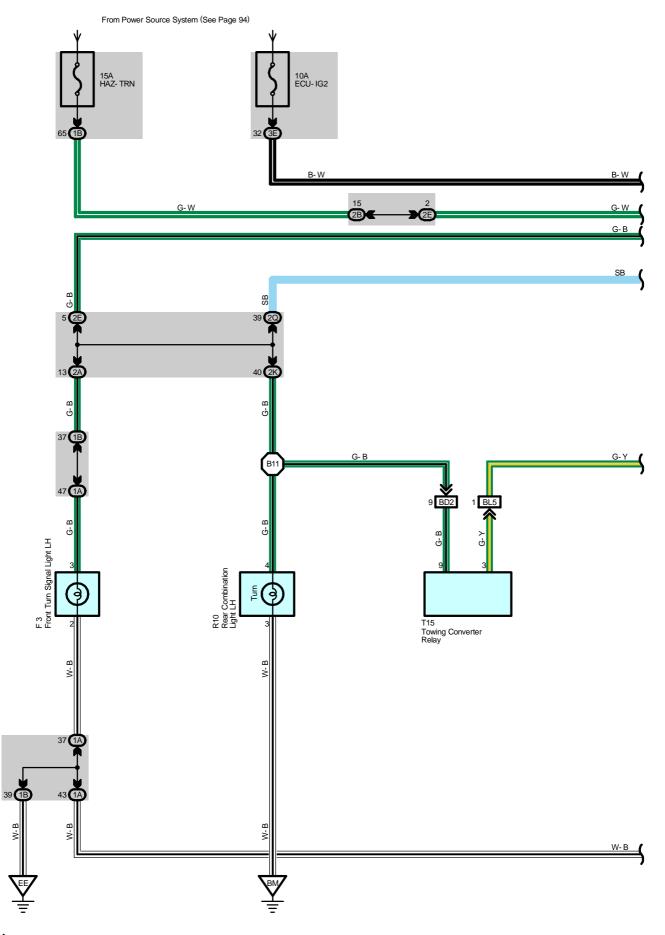
: Connector Joining Wire Harness and Wire Harness

Code	See Page	oining Wire Harness and Wire Harness (Connector Location)	
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)	
II3	80 Dash Wire and Column Wire (Near the Ignition SW)		

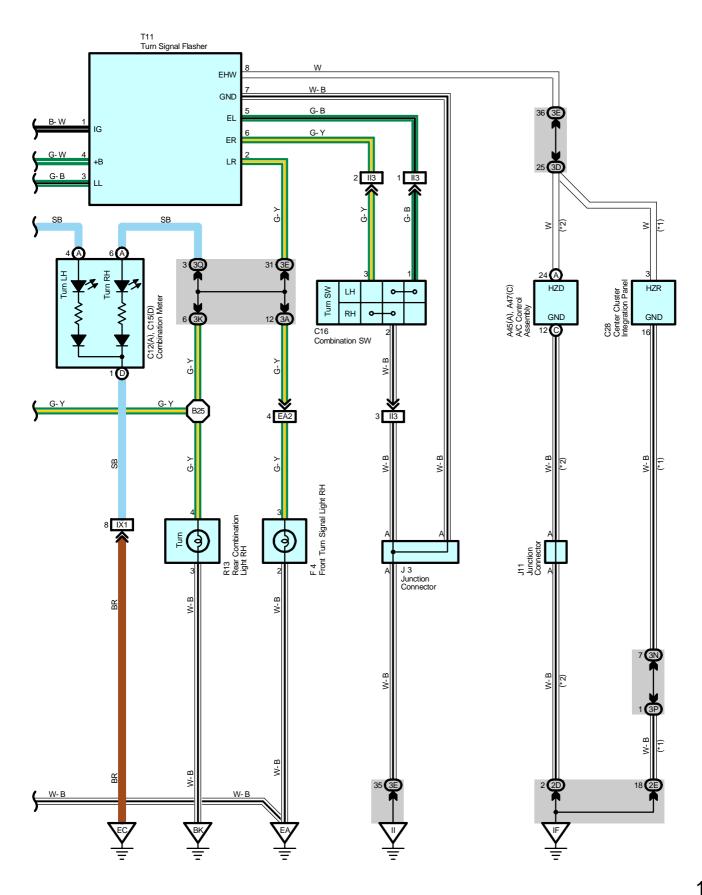
: Ground Points

Code	See Page	Ground Points Location	
EA	76	Front Right Side of Fender Apron	
II	78	Set Bolt of Cowl Side J/B RH	

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E15	76	Engine Room Main Wire			



* 1 : w/ Navigation System * 2 : w/o Navigation System



Turn Signal and Hazard Warning Light

Service Hints

T11 Turn Signal Flasher

4-Ground: Always approx. 12 volts

1-Ground: Approx. 12 volts with ignition SW at ON or ST position

7-Ground: Always continuity

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A45	Α	70	C28	70	R10	73
A47	С	70	F3	68	R13	73
C12	Α	70	F4	68	T11	71
C15	D	70	J3	71	T15	73
C.	16	70	J11	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2A					
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2D	00	Perk Wise and Out Old (PD III (Int (IC) Decel)			
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3D	40	Book Wise and Oved Olds UP BH (Bisk) (ids Book)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3N	40	Dook Wire and Coud Cide VD DI I (Direkt Viels Dook)			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EA2	76	gine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)	
II3	80	Dash Wire and Column Wire (Near the Ignition SW)	
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)	

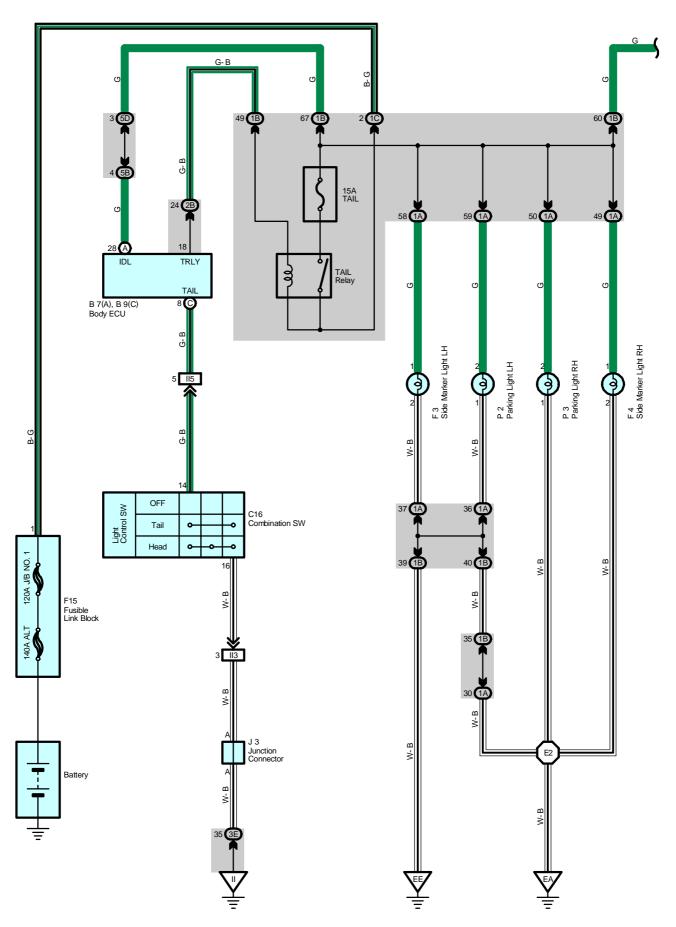
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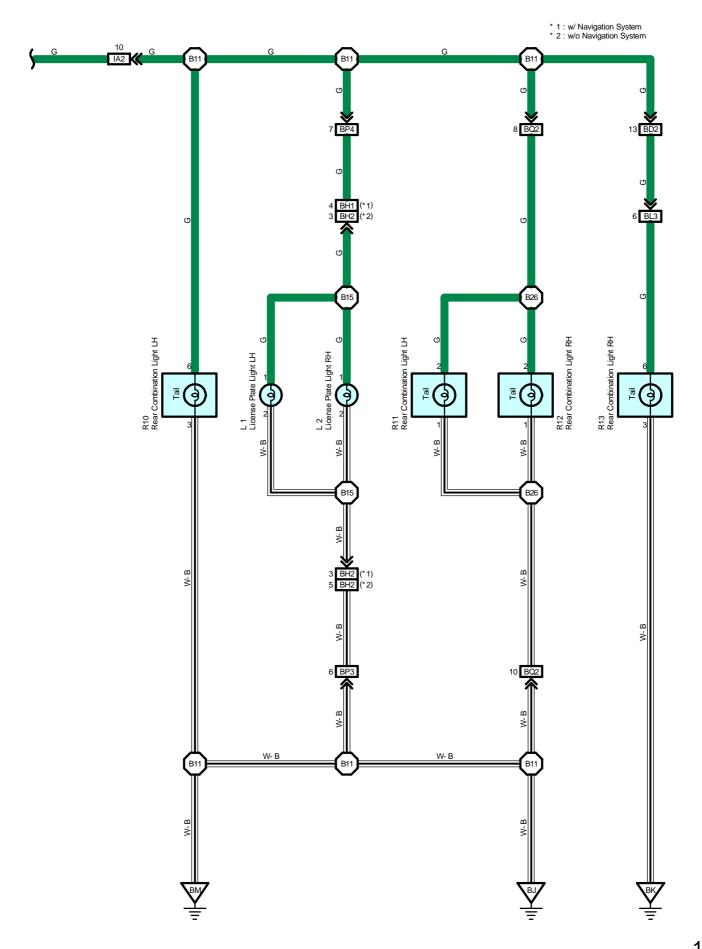
: Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel



Code	See Page Wire Harness with Splice Points		Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B25	88	Floor No.2 Wire





Taillight

Service Hints

C16 Combination SW

14-16 : Closed with light control SW at TAIL or HEAD position

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page
B7	Α	70	F15	68	P3	69
B9	С	70	J3	71	R10	73
C.	16	70	L1	72	R11	73
F	3	68	L2	72	R12	73
F	4	68	P2	69	R13	73

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)	
1B	24	Engine Boom No 2 Wire and Engine Boom I/D (Engine Compartment Left)	
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)	
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)	
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)	
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)	
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)	

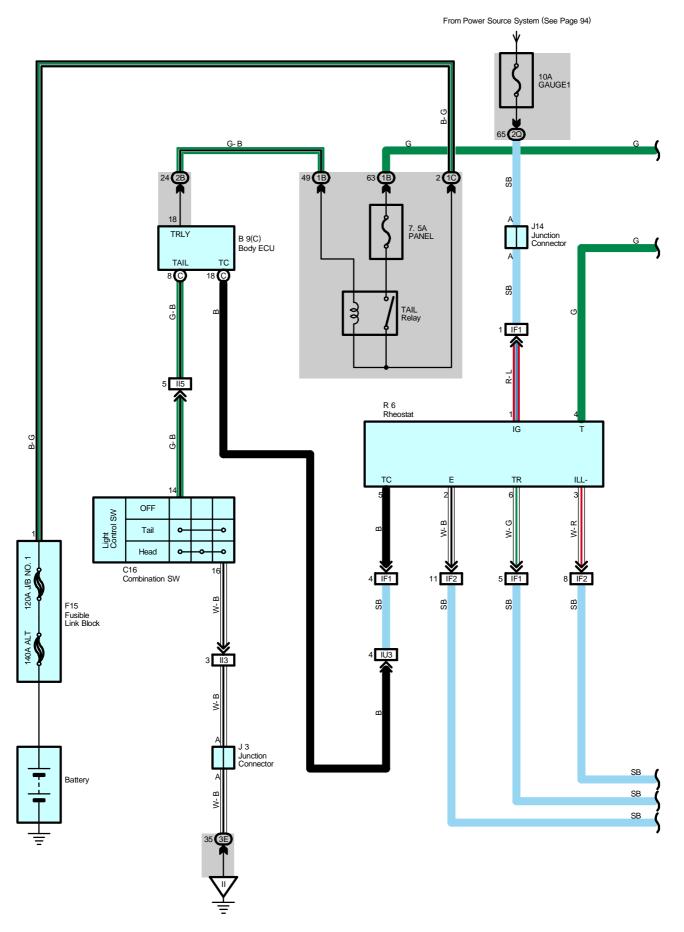
: Connector Joining Wire Harness and Wire Harness

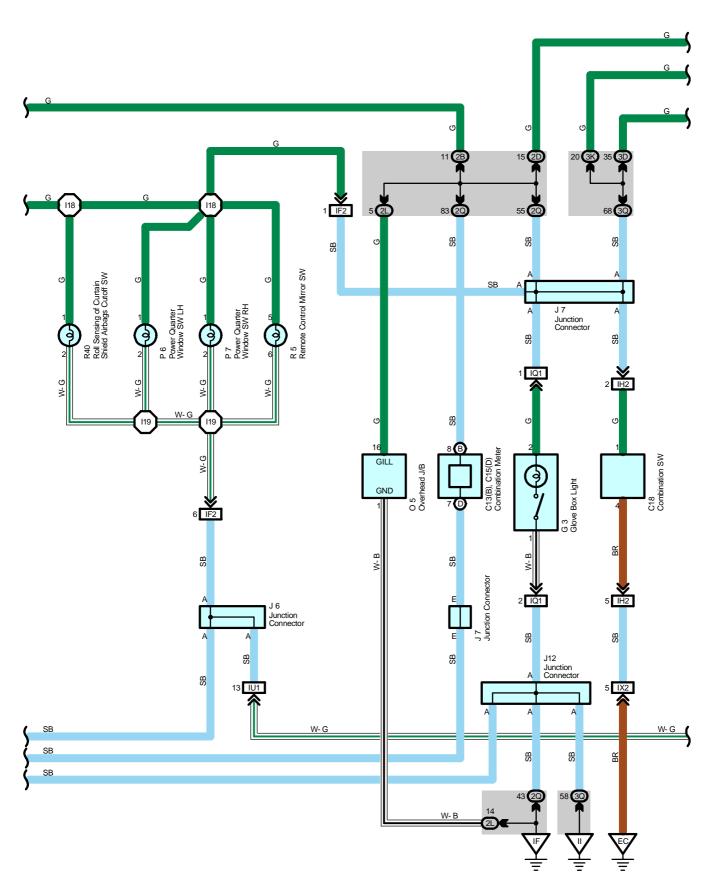
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)			
II3	80	Deep Wire and Column Wire (Near the Ignition SW)			
II5	7 80	Dash Wire and Column Wire (Near the Ignition SW)			
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BH1	06	Billow No. 4 Wire and Book Door Linner Wire (Left Cide of Book Door)			
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BL3	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BP3	00	Billow No. 4 Wire and Floor No. 4 Wire // of Book Side Orienter Bonell			
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			

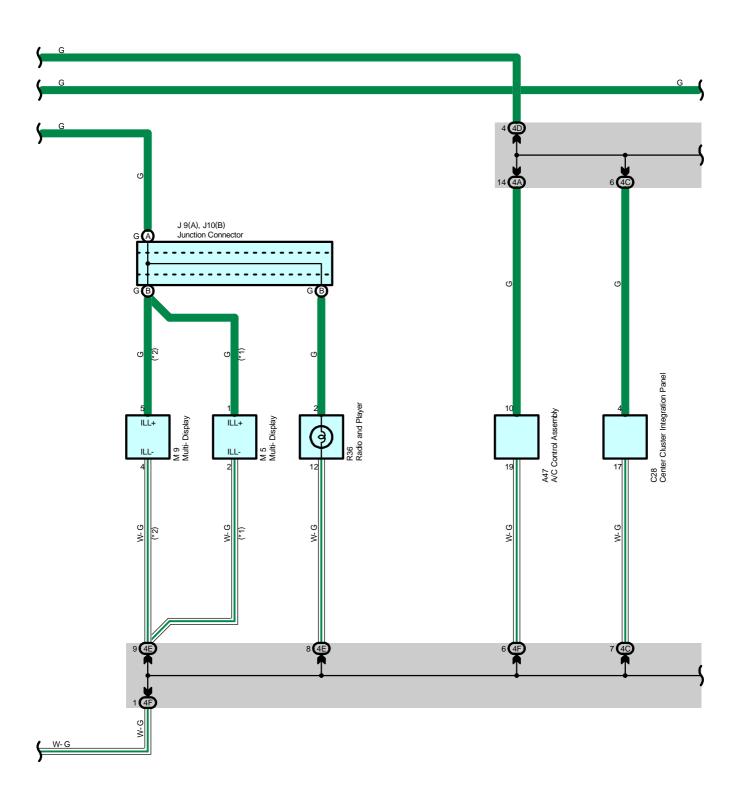
: Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EE	76	Front Left Side of Fender Apron
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

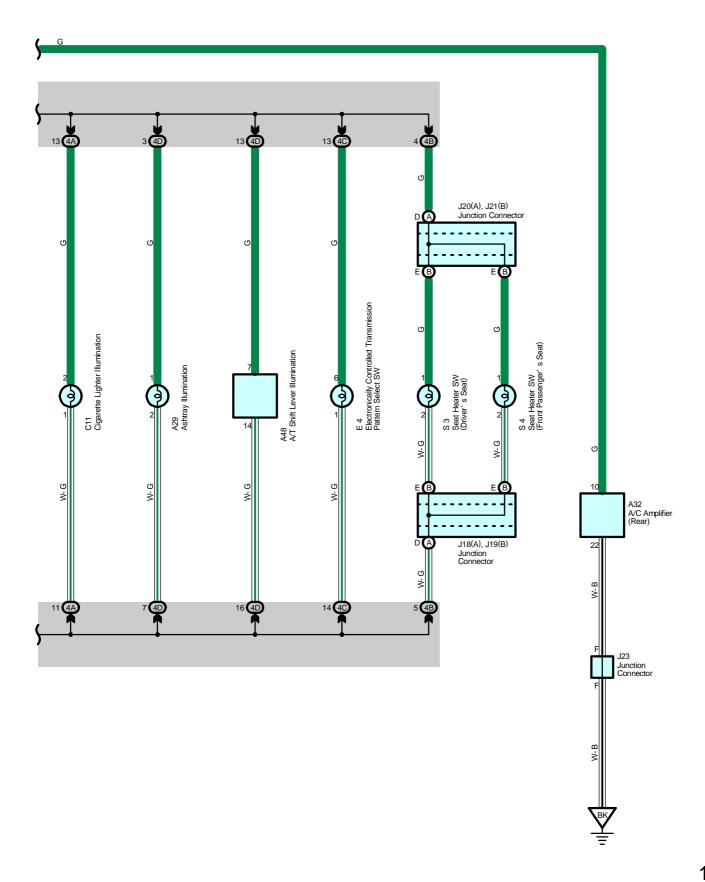
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	76	Engine Room Main Wire	B15	88	Back Door Upper Wire
B11	88	Floor No.1 Wire	B26	88	Back Door Lower Wire







* 1 : w/ Navigation System * 2 : w/o Navigation System



Illumination

Service Hints

C16 Combination SW

14-16 : Closed with light control SW at TAIL or HEAD position

: Parts Location

Co	de	See Page	Co	de	See Page	Code	See Page
A29		70	G	3	70	M5	71
A	32	72	J3		71	M9	71
A	17	70	J6		71	O5	72
A	48	70	J7		71	P6	71
B9	С	70	J9	Α	71	P7	71
C.	11	70	J10	В	71	R5	71
C13	В	70	J1	12	71	R6	71
C15	D	70	J1	14	71	R36	71
C.	16	70	J18	Α	71	R40	71
C.	18	70	J19	В	71	S3	71
C	28	70	J20	Α	71	S4	71
E	4	70	J21	В	71		
F′	15	68	J2	23	72		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1B	0.4	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
1C	24					
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3E	40					
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4B						
4C		Doob Wire and I/D No. 4 (Instrument Donal Center)				
4D		Dash Wire and J/B No.4 (Instrument Panel Center)				
4E	1					
4F						

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IF1	70	Instrument Denel Integration Wire and Instrument Denel Wire // of Cide of Instrument Denel			
IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)			
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)			
II3	90	Dock Wire and Caluma Wire (Aleas the Imitian CW)			
II5	80	Dash Wire and Column Wire (Near the Ignition SW)			
IQ1	80	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)			
IU1	00	Instrument Danel Integration Wire and Deah Wire (Dehind the Claus Day)			
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IX2	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			

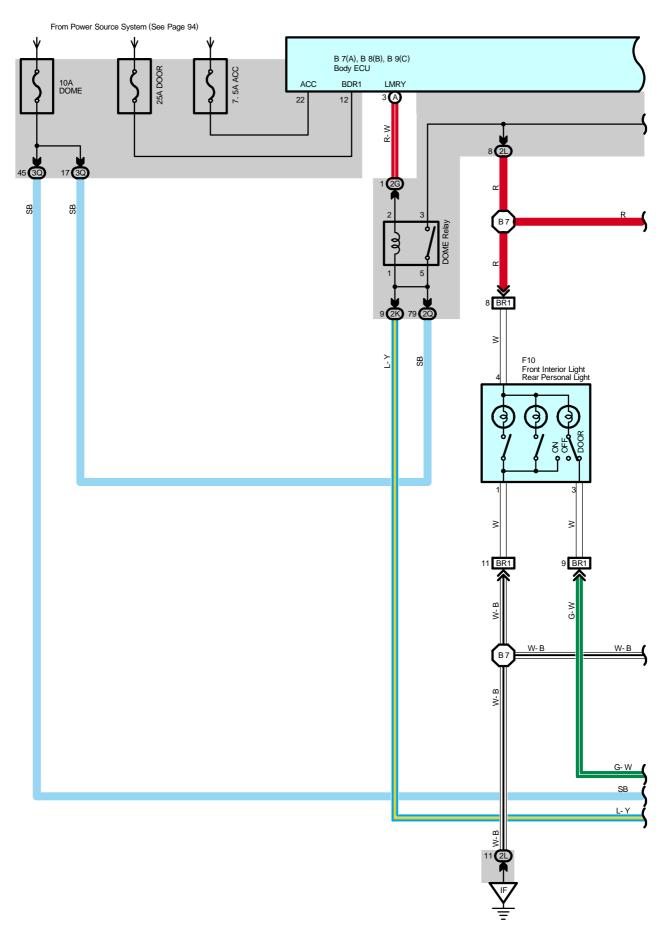


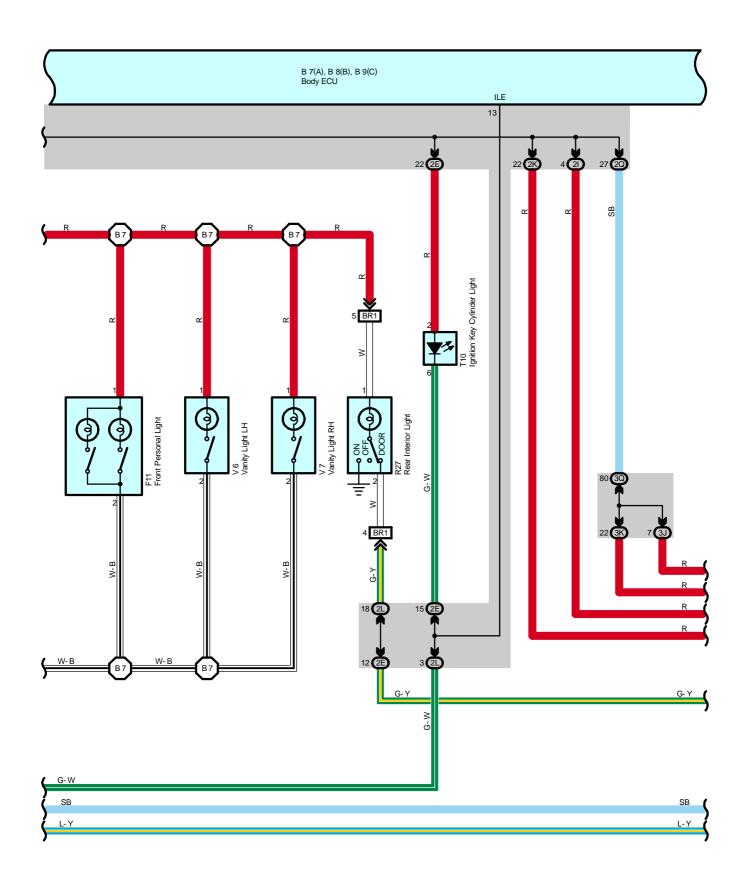
: Ground Points

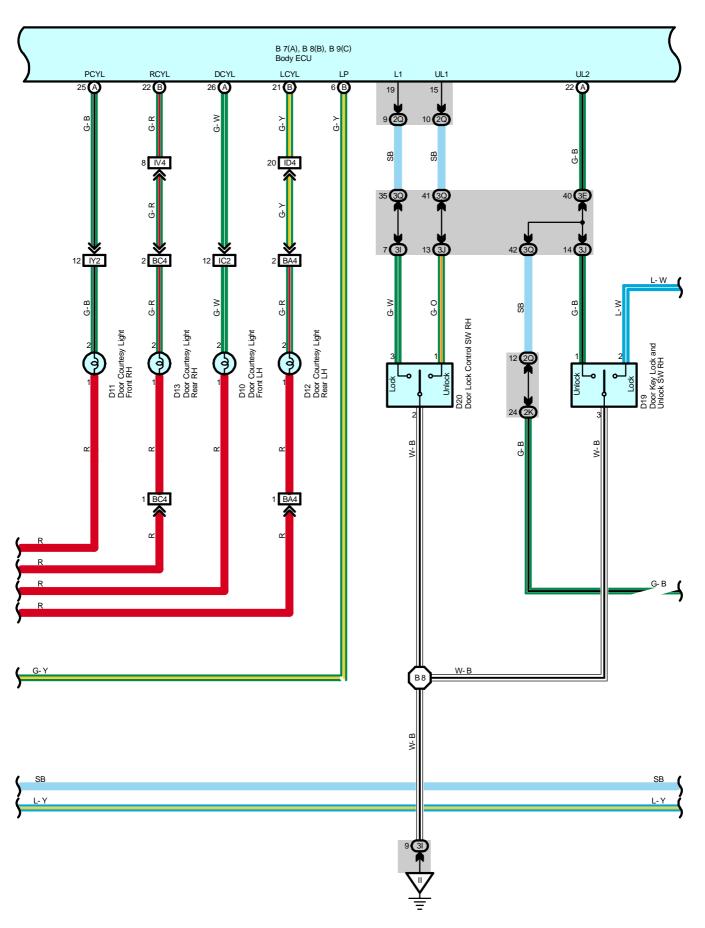
Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat

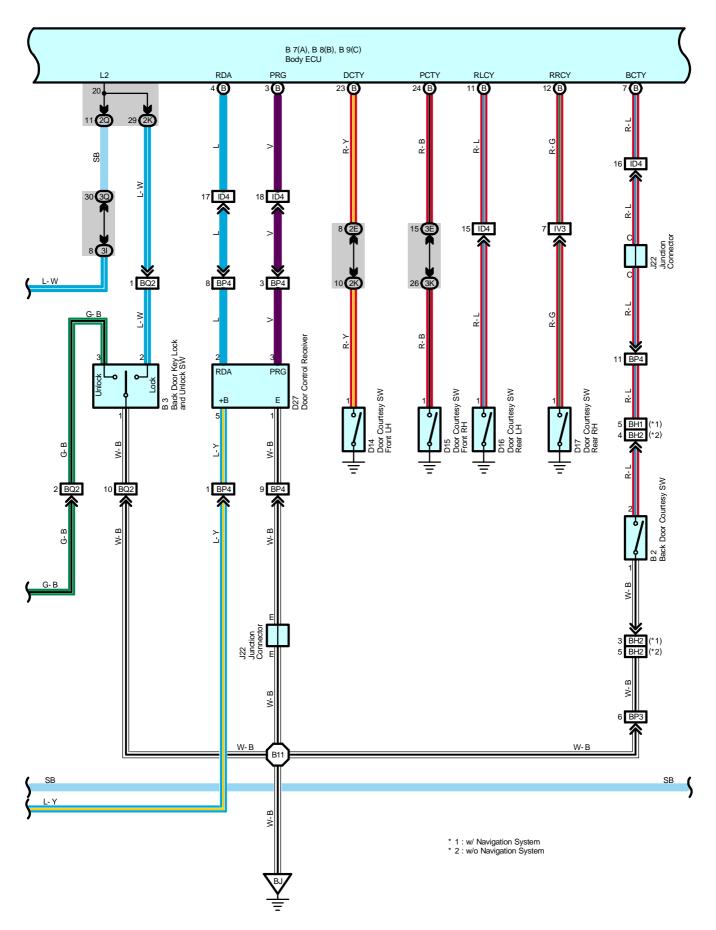


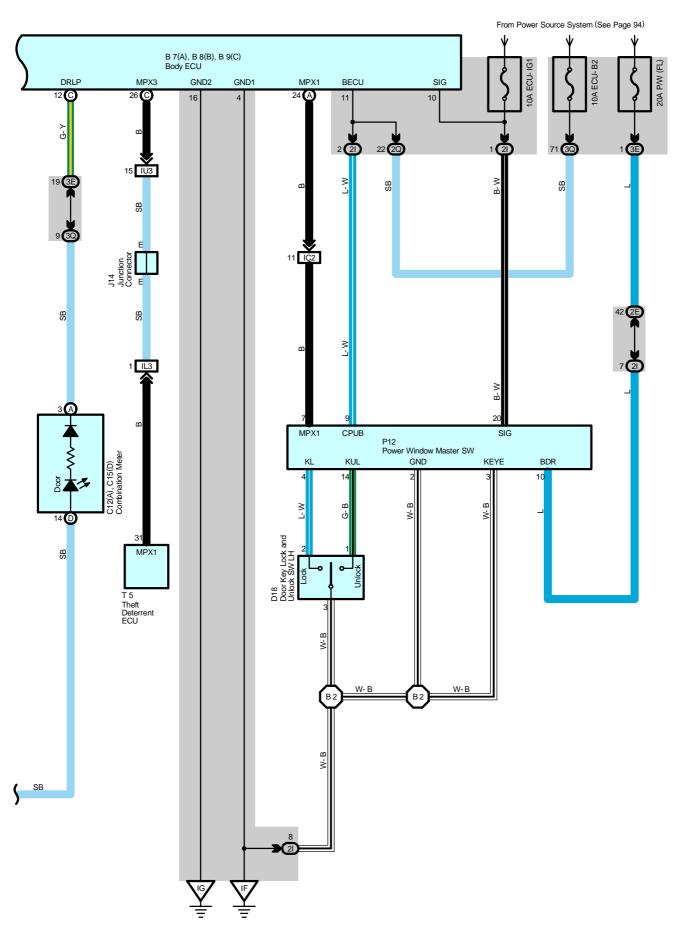
Code	See Page	ge Wire Harness with Splice Points		See Page	Wire Harness with Splice Points
I18	80	Instrument Panel Wire	l19	80	Instrument Panel Wire











System Outline

Normal Operation

- * When the front Door LH or RH is opened, the door courtesy light front LH, RH and open door warning light is turned on. When the front door LH and RH are closed, the door courtesy light front LH, RH is turned off.
- * When the rear door LH, RH or the back door is opened, door courtesy light rear LH, RH, rear interior light and the open door warning light is turned on. When the rear door LH, RH and back door are closed, the door courtesy light rear LH, RH is turned off.
- * When all the doors are closed, the open door warning light is turned off.

Turn Off Function

When the ignition SW turned off and there is no change in the door courtesy SW for approx. 30 minute, the DOME relay is turned off. The DOME relay is turned on again when any of the following conditions are met.

- * Ignition SW is turned from OFF position to ACC or ON position
- * Change to any door courtesy SW
- * Driver or front passenger door is unlocked by the key or transmitter

Immediate Turn Off Function at Door Lock

When all the doors are closed, and the driver or front passenger door is locked by the key or transmitter, the DOME relay is turned off, after approx. 80 seconds. However, when the illuminated entry system is operating, the DOME relay is turned off after the operation is completed, the DOME relay is turned on again when any of the following conditions are met.

- * Ignition SW is turned from OFF position to ACC or ON position
- * Change to any door courtesy SW
- * Driver or front passenger door is unlocked by the key or transmitter

Illuminated Entry System

- * When any door is opened, each light is turned on.
- * The light remains on for approx. 15 seconds after all doors are closed, and fades out.
- * With the ignition SW is at ACC or ON position, and any door open, when all the doors are closed, each light fades out immediately.
- * When the ignition SW is turned to ACC or ON position during timer lighting, each light fades out immediately.
- * When the doors are locked during timer lighting, each light fades out immediately.
- * The lights include, the front interior light, ignition key cylinder light, and front door courtesy light LH, RH.

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page
В	2	72	D13	72	F11	72
В	3	72	D14	72	J14	71
B7	Α	70	D15	72	J22	72
B8	В	70	D16	72	P12	73
B9	С	70	D17	72	R27	73
C12	Α	70	D18	72	T5	71
C15	D	70	D19	72	T10	71
D'	10	72	D20	72	V6	73
D.	11	72	D27	72	V7	73
D'	12	72	F10	72		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)		
2E	20	Deal William and Oracl Olde UD LLL (Latt Val. Deal)		
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)		
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)		
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)		
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
31	40	Front Door DI I Wire and Coul Cide I/D DI I /Dight //iek Donel\		
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)		

Interior Light

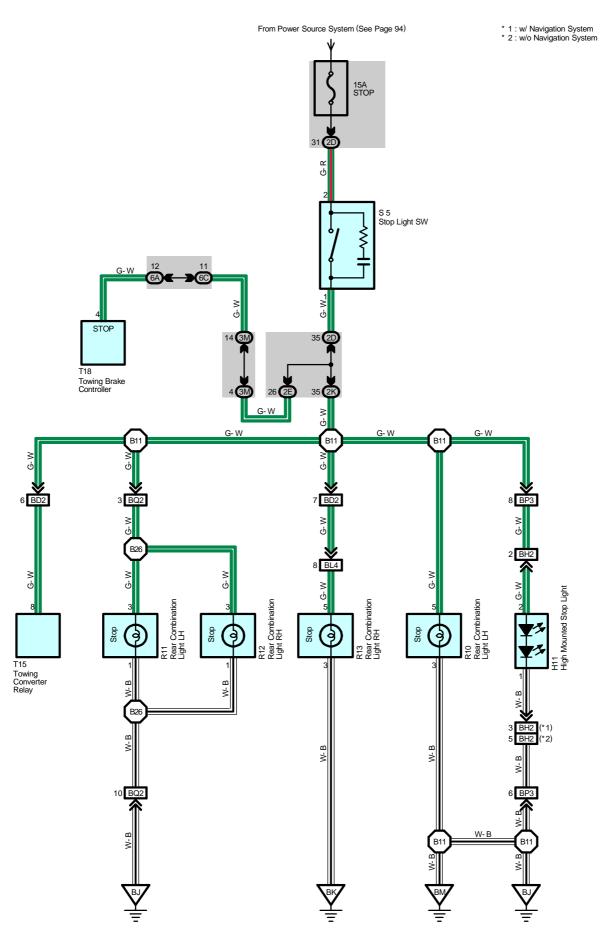
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IV3	00	Dealt Mine and Floor No OMine (Birth Water Board)			
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)			
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)			
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			
BH1	00	Dillow No. 4 Wire and Deals Dead Inner Wire (Left Cide of Deals Dead)			
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BP3	00	Dillow No. 4 Wire and Floor No. 4 Wire (Left Door Cide Overton Door)			
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BR1	88	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)			

: Ground Points

Code	See Page	Ground Points Location
IF	70	Set Bolt of Cowl Side J/B LH
IG	- 78	Set Boil of Cowi Side J/B Lm
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B7	88	Roof No.1 Wire	B11	88	Floor No.1 Wire



Service Hints

S5 Stop Light SW

2-1 : Closed with brake pedal depressed

: Parts Location

Code	See Page	Code	See Page	Code	See Page
H11	72	R12	73	T15	73
R10	73	R13	73	T18	71
R11	73	S5	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)		
2D	20	Doch Wire and Coul Cide I/D LLL /Left /Ciek Done)		
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)		
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
6A	60	Doch Wire and I/D No C /Dehind the Crove Day)		
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)		

: Connector Joining Wire Harness and Wire Harness

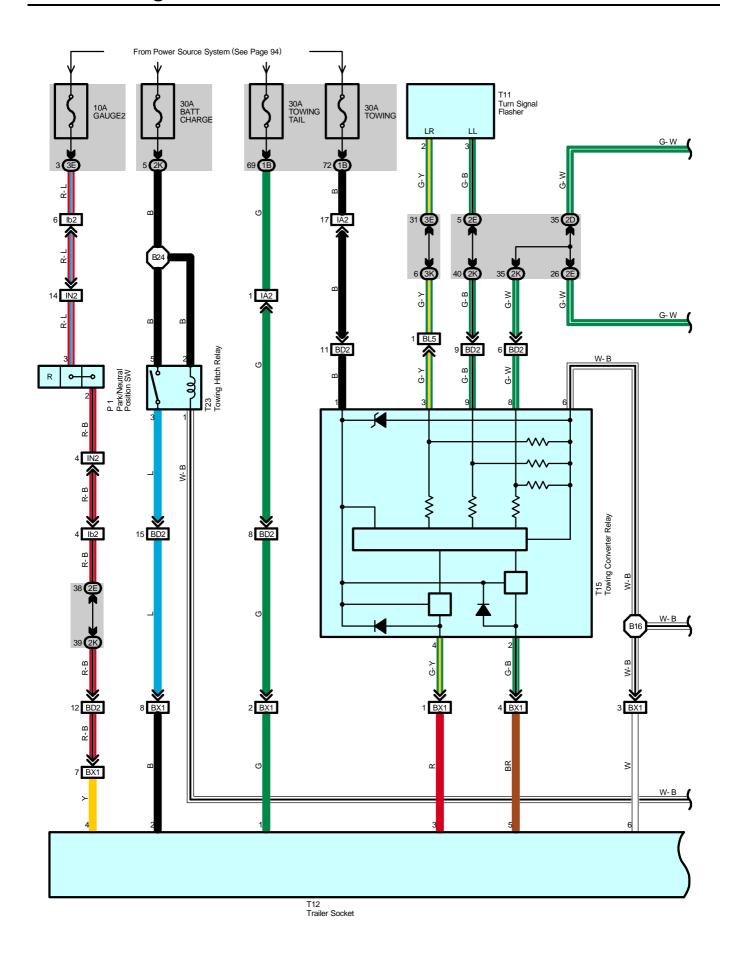
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BL4	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)

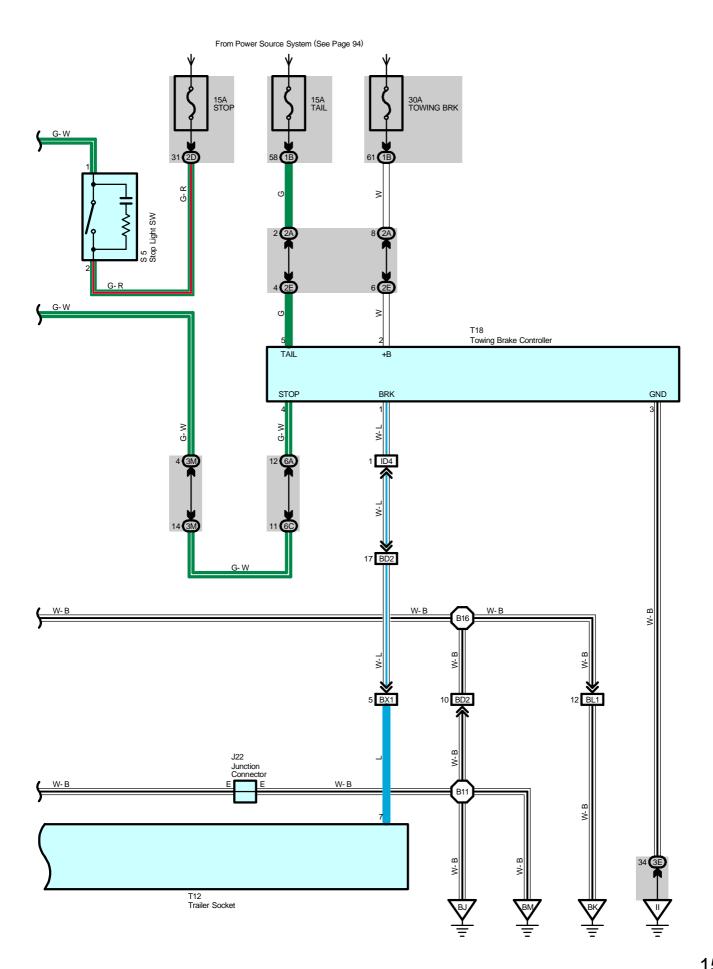
: Ground Points

Code	See Page	Ground Points Location
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

: :

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B26	88	Back Door Lower Wire





Trailer Towing

Service Hints

T15 Towing Converter Relay

1-Ground: Always approx. 12 volts 6-Ground: Always continuity

S5 Stop Light SW

2-1 : Closed with brake pedal depressed

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J22	72	T11	71	T18	71
P1	69	T12	73	T23	73
S5	71	T15	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)		
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)		
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)		
2D	28	Death Wise and Out Old (ID) III (I a (I) Cd Death)		
2E	20	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)		
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)		
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
6A	60	Doch Wire and I/D No C /Debind the Crove Dov)		
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	oining Wire Harness and Wire Harness (Connector Location)			
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BL1	00	Floor No. 2 Wire and Floor No. 2 Wire (Direkt Cide of Dear Floor Crossmann Lan)			
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BX1	88	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)			

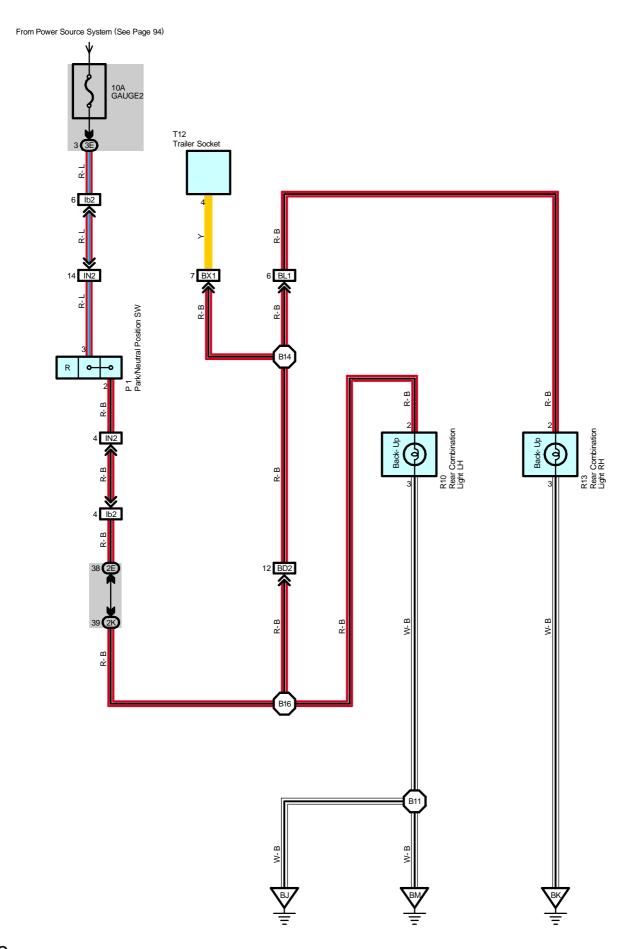
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: Ground Points

Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel



Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B24	88	Floor No.1 Wire
B16	88	Floor No.3 Wire			



Service Hints

P1 Park/Neutral Position SW

3-2 : Closed with shift lever at R position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
P1	69	R13	73		
R10	73	T12	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

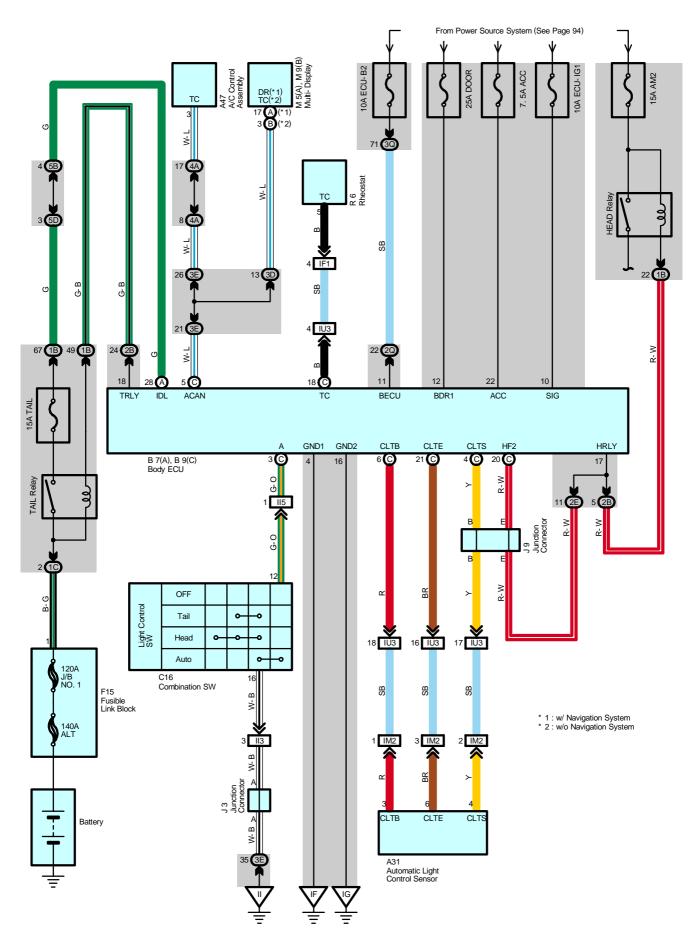
: Connector Joining Wire Harness and Wire Harness

Code	See Page	ining Wire Harness and Wire Harness (Connector Location)	
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)	
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)	
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	
BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)	
BX1	88	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)	

: Ground Points

Code	See Page	Ground Points Location	
BJ	86	Under the Driver's Seat	
BK	86	ront Side Under the Front Passenger's Seat	
BM	86	Left Rear Side Quarter Panel	

Code	See Page	Wire Harness with Splice Points	Code See Page Wire Harness with Splice Po		Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B16	88	Floor No.3 Wire
B14	88	Floor No.2 Wire			



System Outline

The automatic light control system works when the light control SW is turned to AUTO. The automatic light control sensor detects the brightness around the vehicle. By this function, the system automatically turns the taillight and headlight on if the brightness is below the regular level and turns the taillight and headlight off when the surroundings become brighter than the regular level.

Service Hints

Body ECU

11, 12-Ground: Always approx. 12 volts

22-Ground: Approx. 12 volts with ignition SW at ACC or ON position 10-Ground: Approx. 12 volts with ignition SW at ON or ST position

4, 16-Ground : Always continuity

: Parts Location

Code		See Page	Code	See Page	Code		See Page
A31 70		C16	70	M5	Α	71	
A47		70	F15	68	M9	В	71
B7	A 70 J3 71 R6		71				
В9	С	70	J9	71			

: Junction Block and Wire Harness Connector

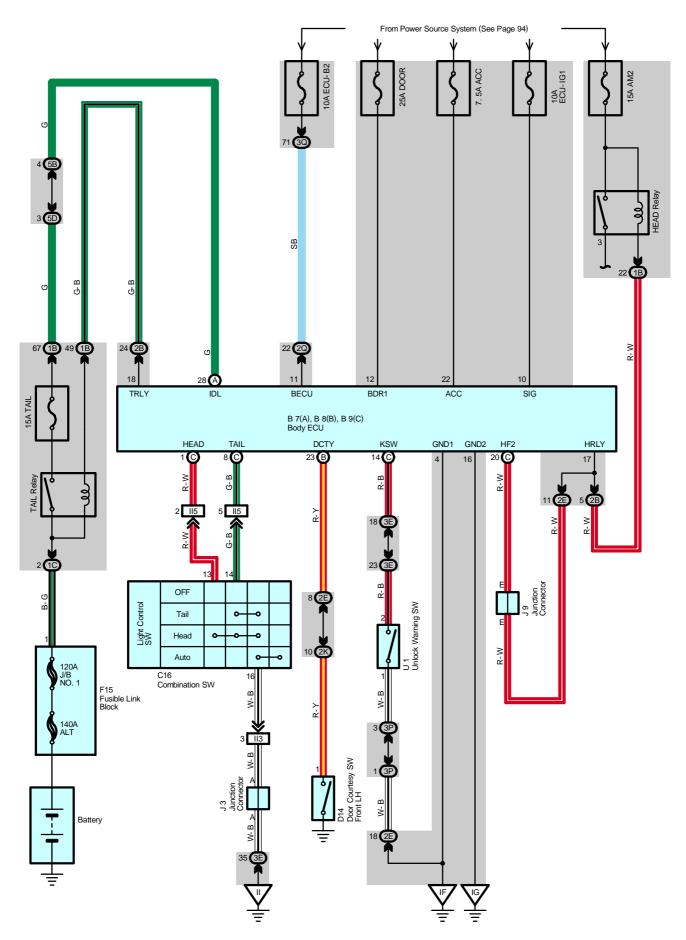
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
1C	24	Engine Room No.2 Wile and Engine Room 3/B (Engine Companinent Lett)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D	40	Dook Wire and Coul Cide I/D DI I (Disht I/id) Door!			
3E		Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)			
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	oining Wire Harness and Wire Harness (Connector Location)				
IF1	78	strument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)				
II3	90	Dash Wire and Column Wire (Near the Ignition SW)				
II5	80					
IM2	80	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)				
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				

7 : Ground Points

Code	See Page	Ground Points Location
IF	70	Set Bolt of Cowl Side J/B LH
IG	/8	Set Bolt of Cow Side 3/B LH
II	78	Set Bolt of Cowl Side J/B RH



System Outline

The light auto turn off system automatically turns the taillight or headlight off according to the door open or close on the driver's side, and prevent failing to turn off the lights.

If the ignition switch is turned to OFF from ON with the headlight or taillight is on, the signal is input in the TERMINAL SIG of the body ECU. If the driver's side door is opened at that time, the signal from the door courtesy SW front LH is sent to the TERMINAL DCTY of the body ECU. The signal turns the headlight or taillight off.

Delayed turn off control

In the case of that some doors are opened, the headlight or taillight is left on for about 30 seconds after the all the doors was closed. However, if the doors are locked using the wireless door lock, the headlight or taillight is immediately turn off.

Service Hints

Body ECU

11, 12-Ground: Always approx. 12 volts

10-Ground: Approx. 12 volts with ignition SW at ON or ST position

4, 16-Ground: Always continuity

: Parts Location

Code		See Page	Code	See Page	Code	See Page
B7	Α	70	C16	70	J3	71
B8	В	70	D14	72	J9	71
В9	С	70	F15	68	U1	71

: Junction Block and Wire Harness Connector

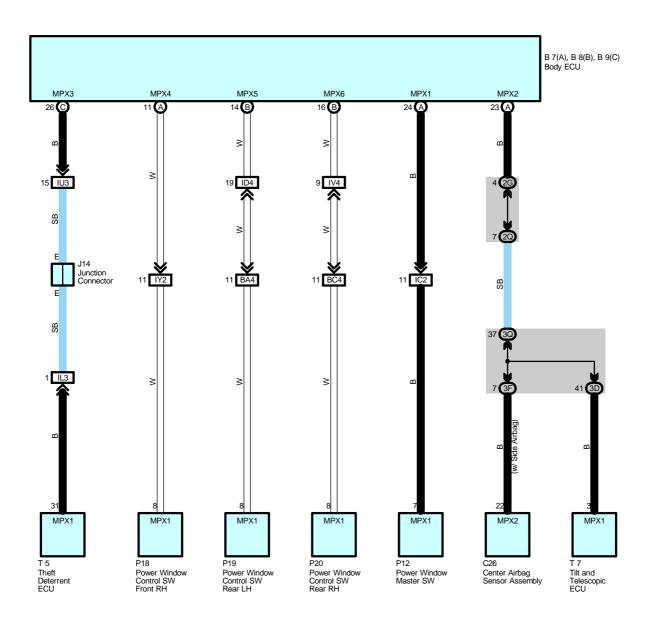
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C	24	Engine Room No.2 Wire and Engine Room 3/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)

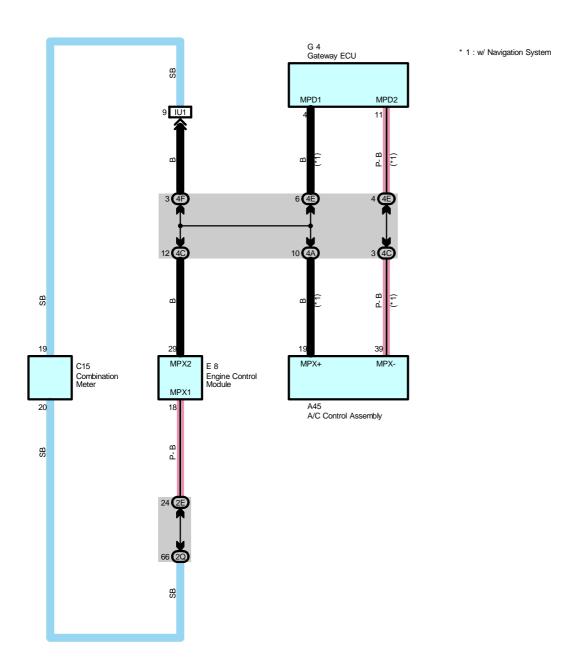
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	- 80	Dash Wire and Column Wire (Near the Ignition SW)
II5		

7 : Ground Points

Code	See Page	Ground Points Location
IF	70	Set Bolt of Cowl Side J/B LH
IG	70	Set Bolt of Cowl Side 3/B Lm
II	78	Set Bolt of Cowl Side J/B RH

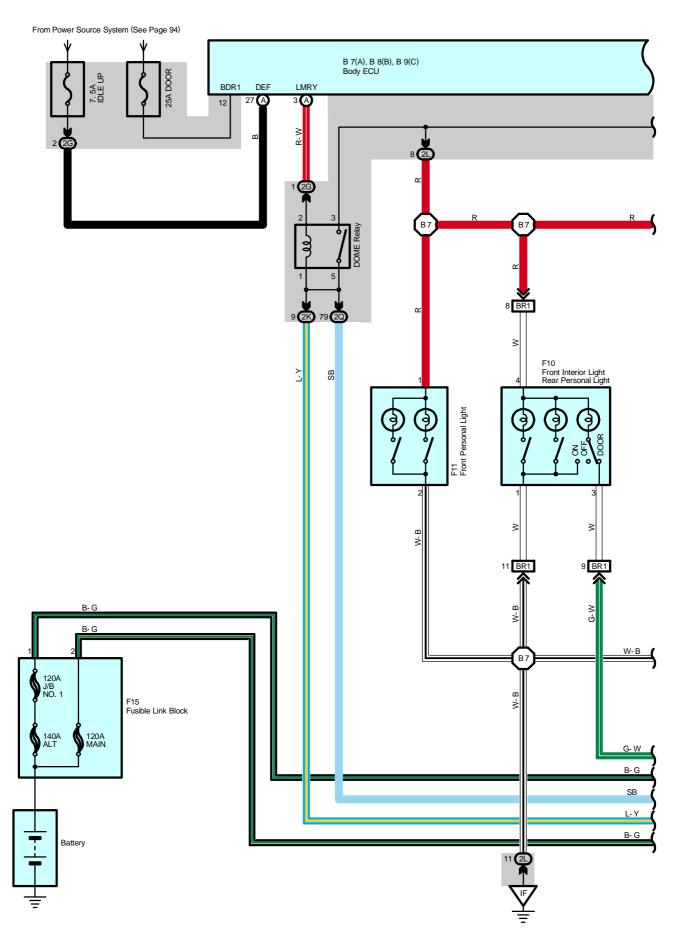


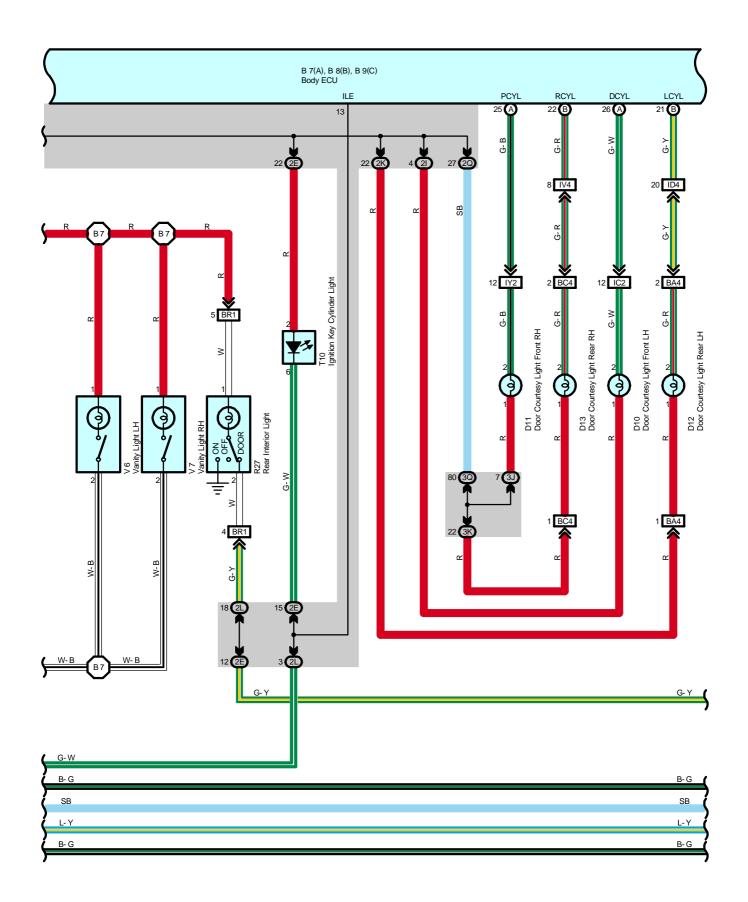


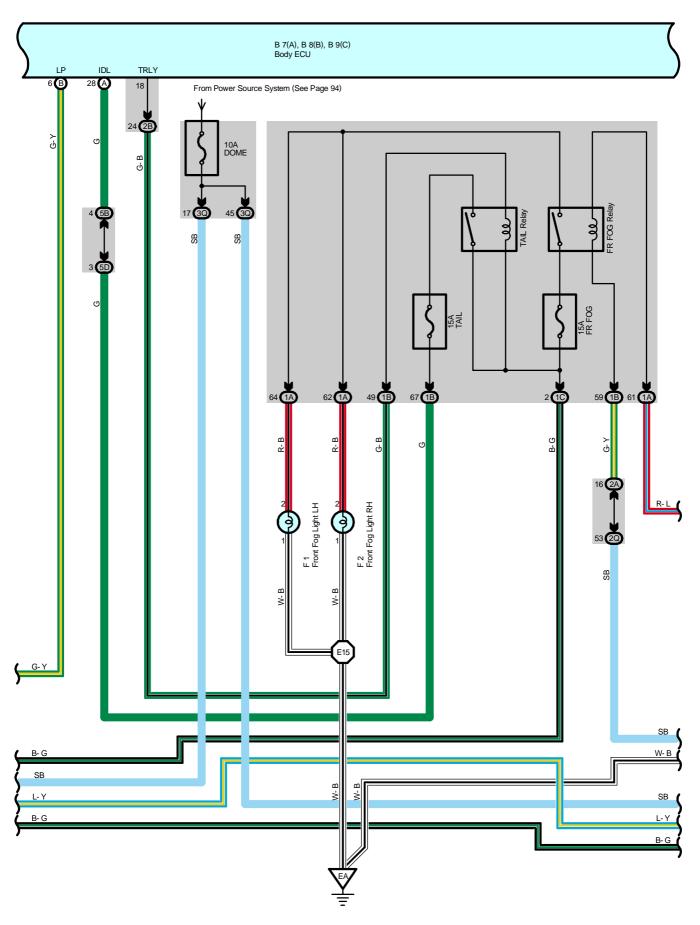
Multiplex Communication System (Communication Bus)

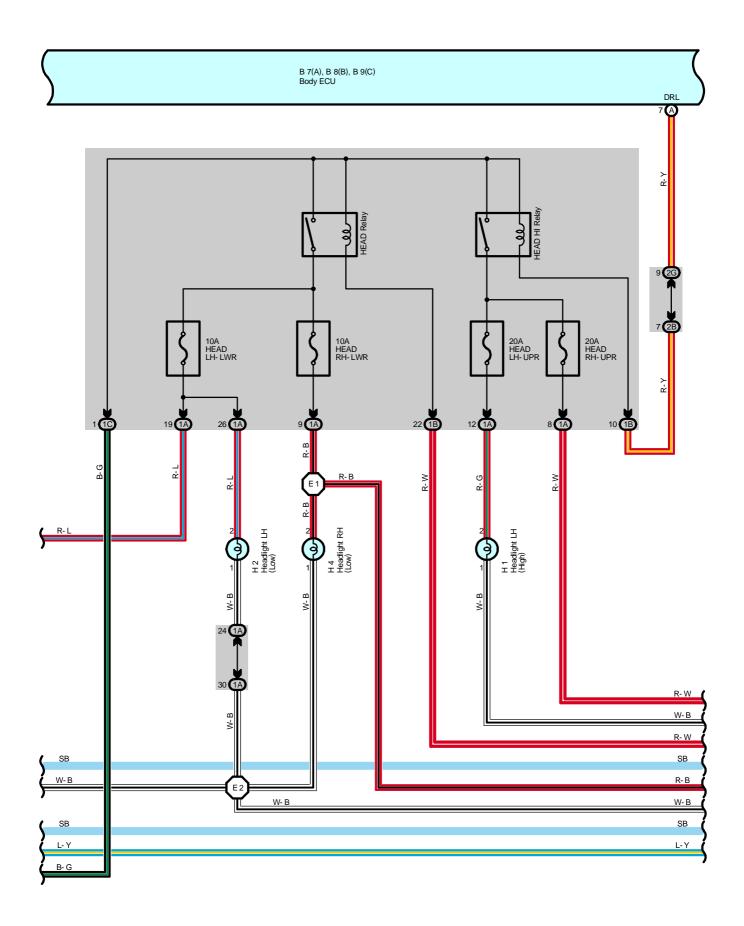
Multiplex Communication System Includes Following Systems

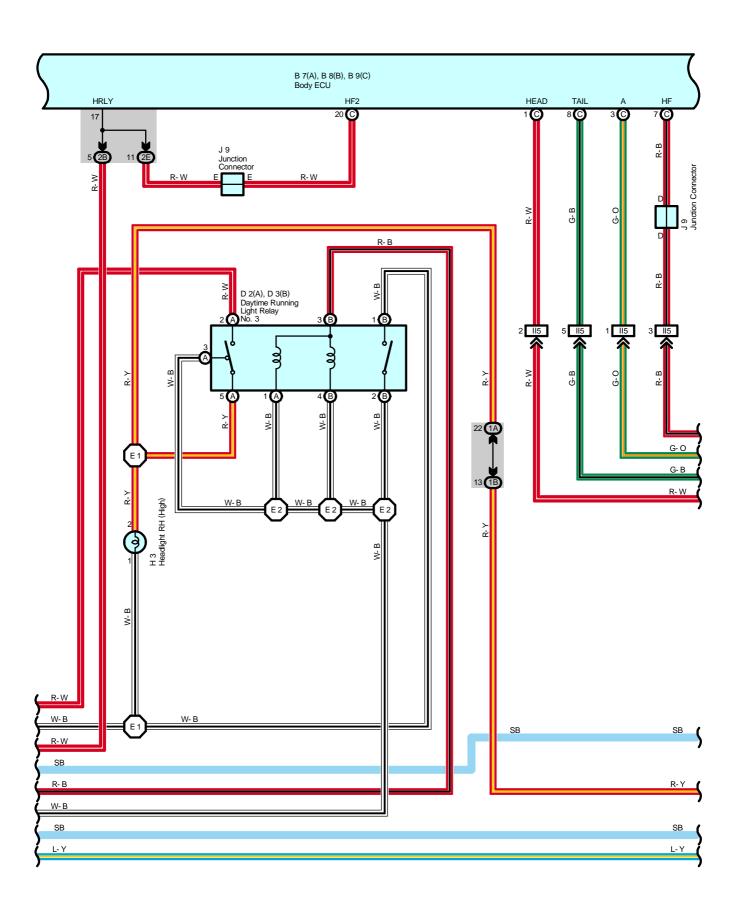
- * Automatic Light Control
- * Door Lock Control
- * Front Fog Light
- * Headlight
- * Interior Light
- * Key Reminder
- * Light Auto Turn Off
- * Power Window
- * Theft Deterrent
- * Wireless Door Lock Control

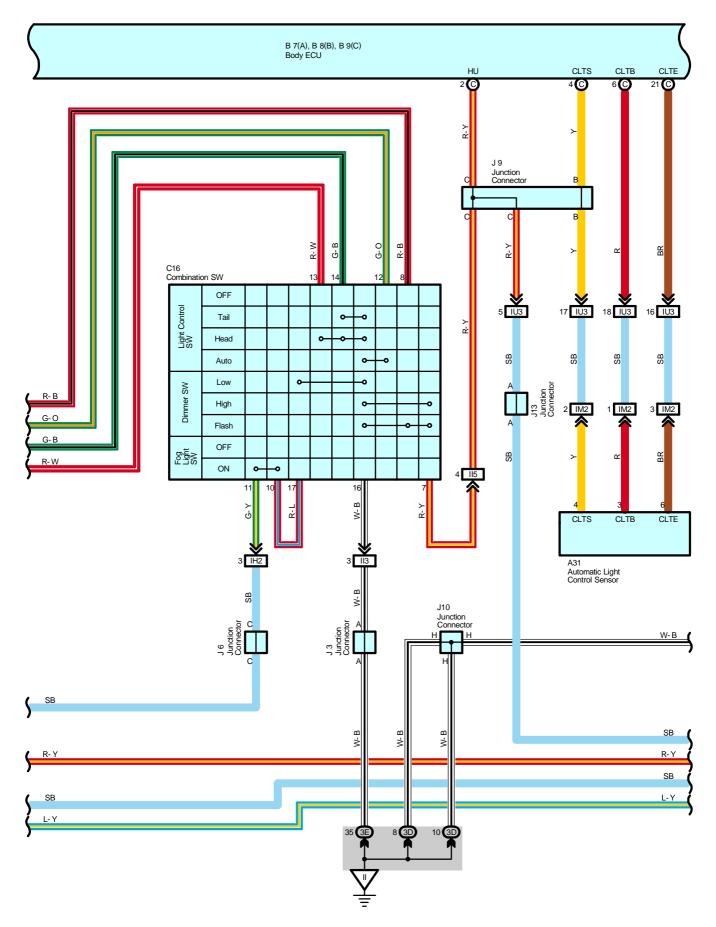


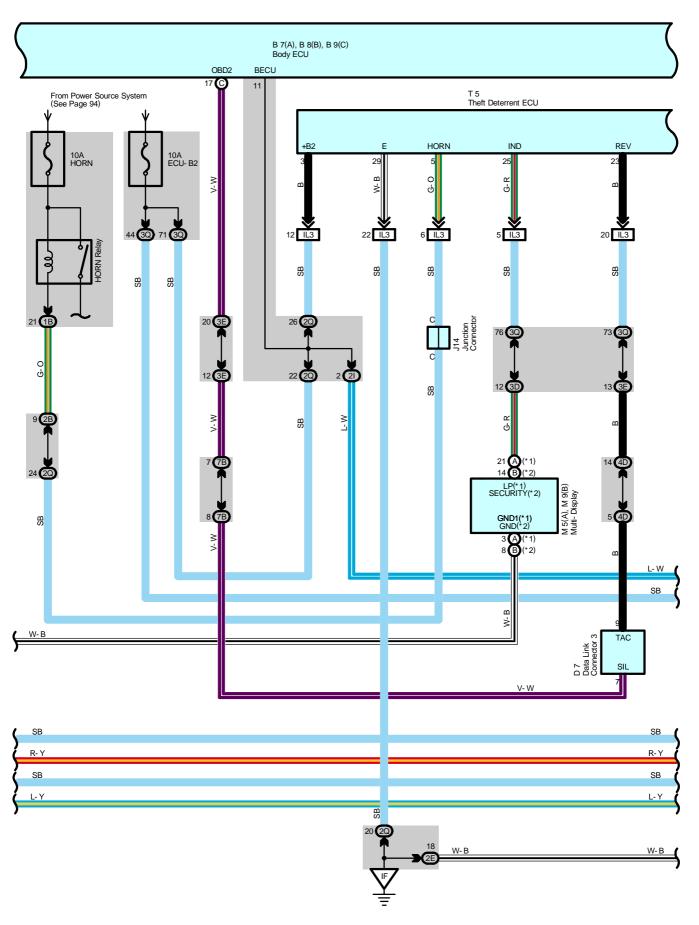


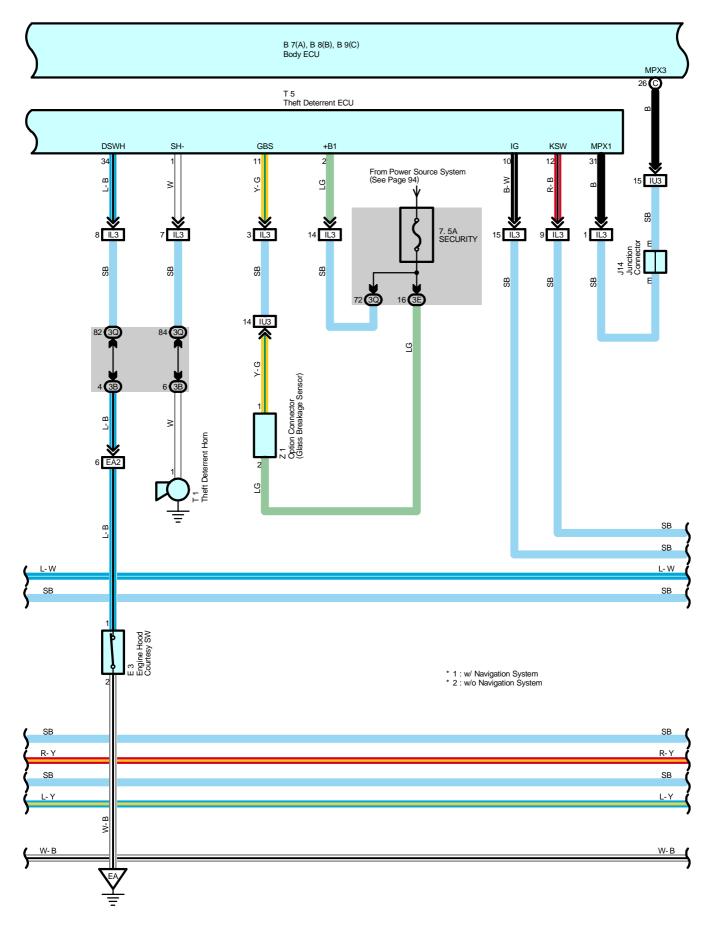


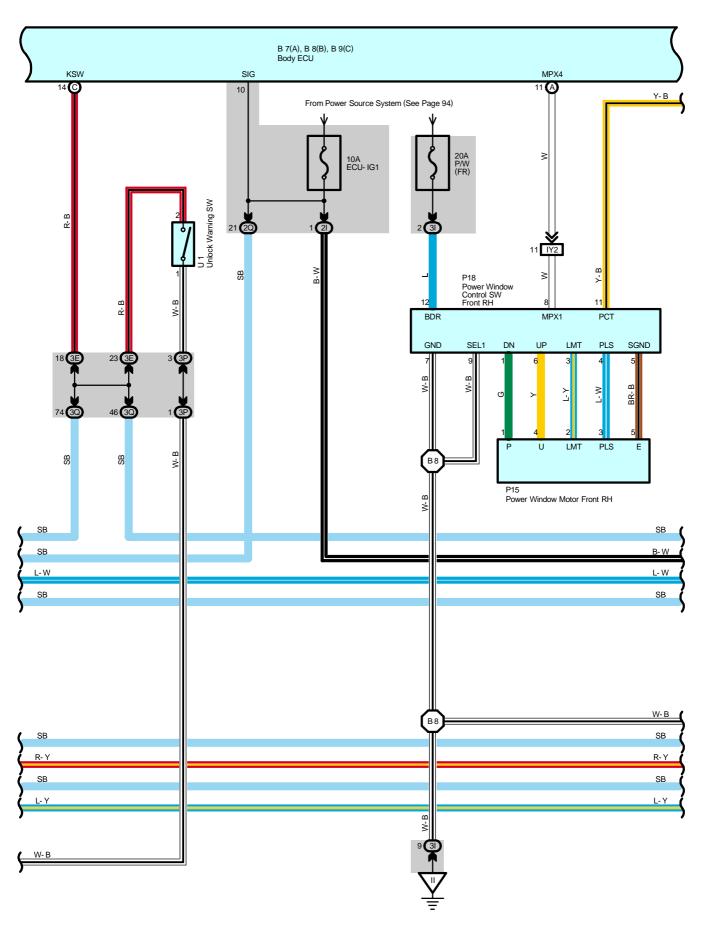


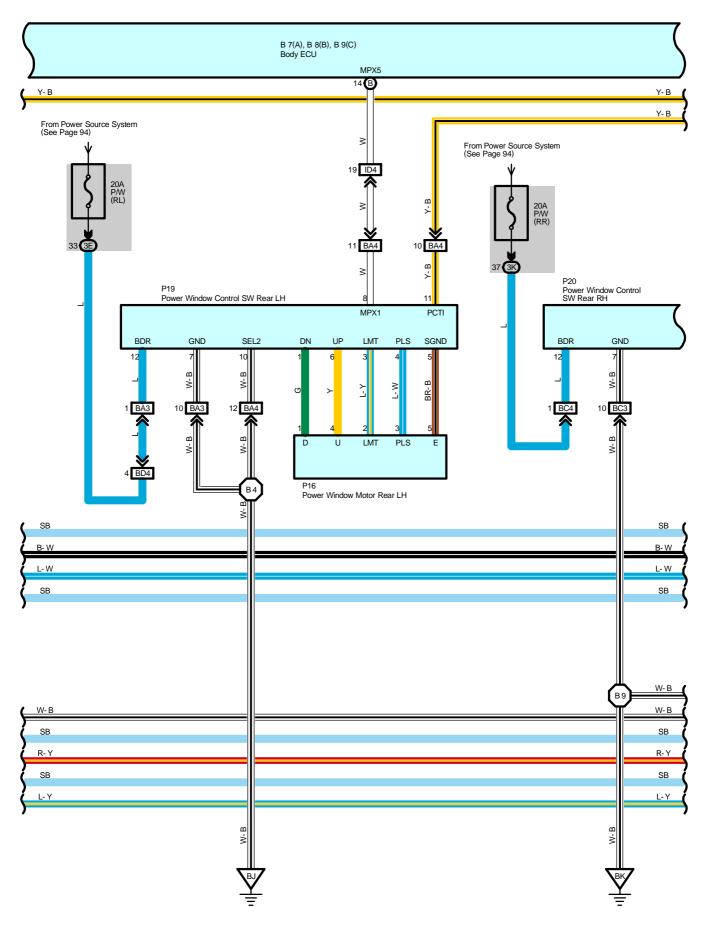


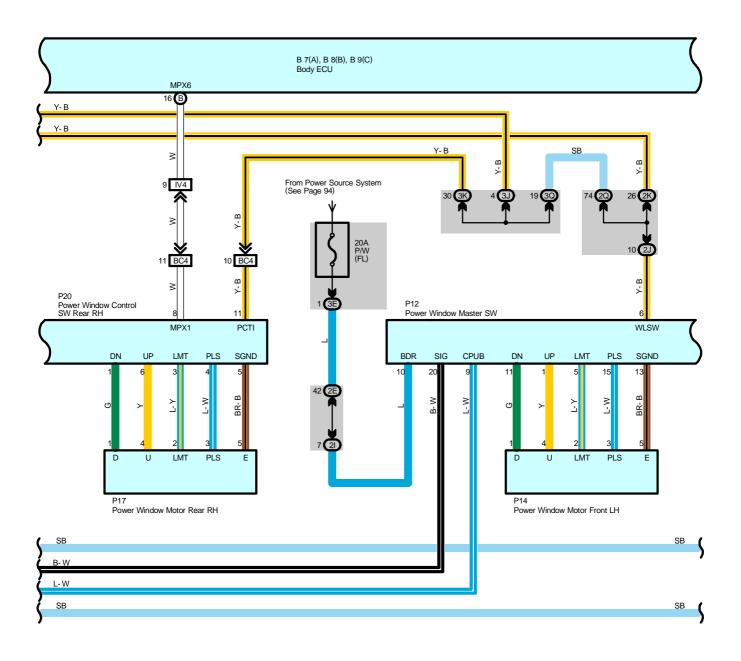


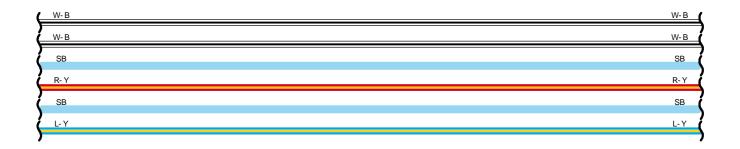


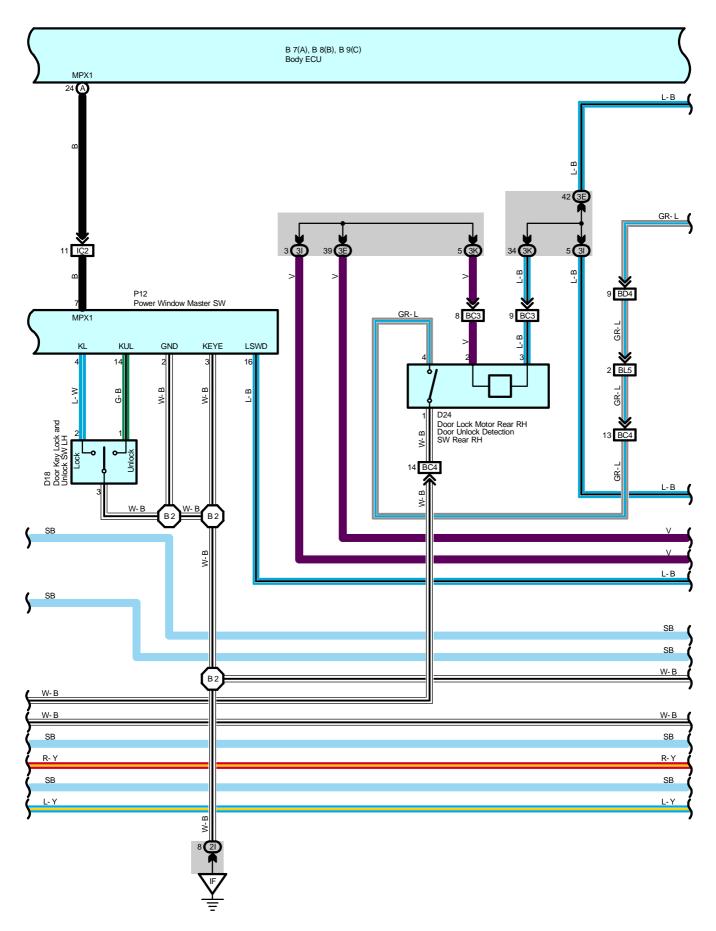


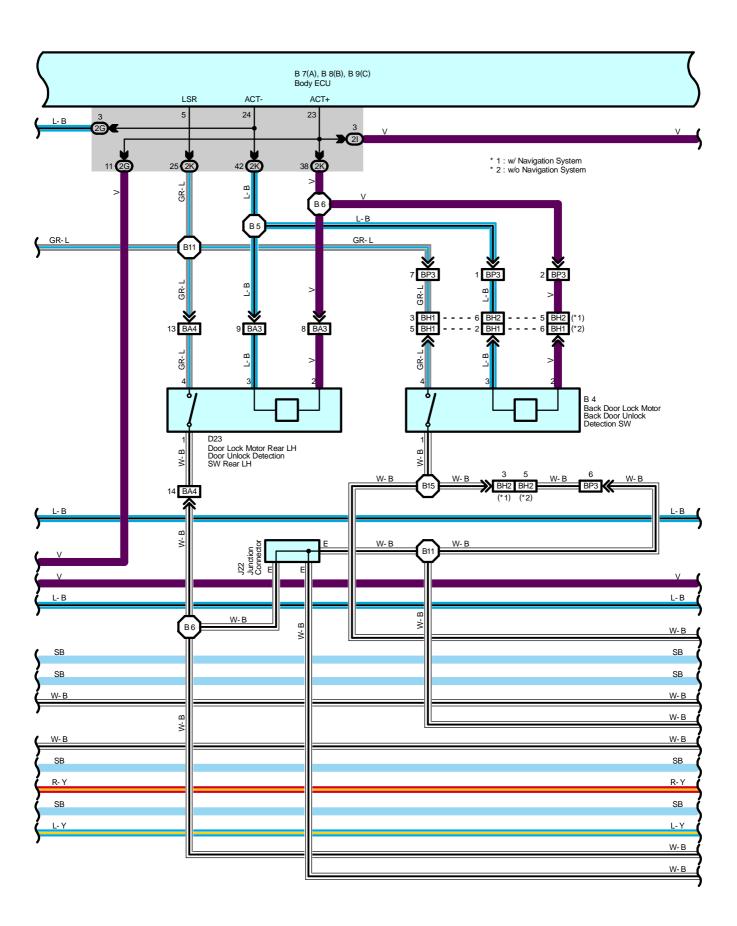


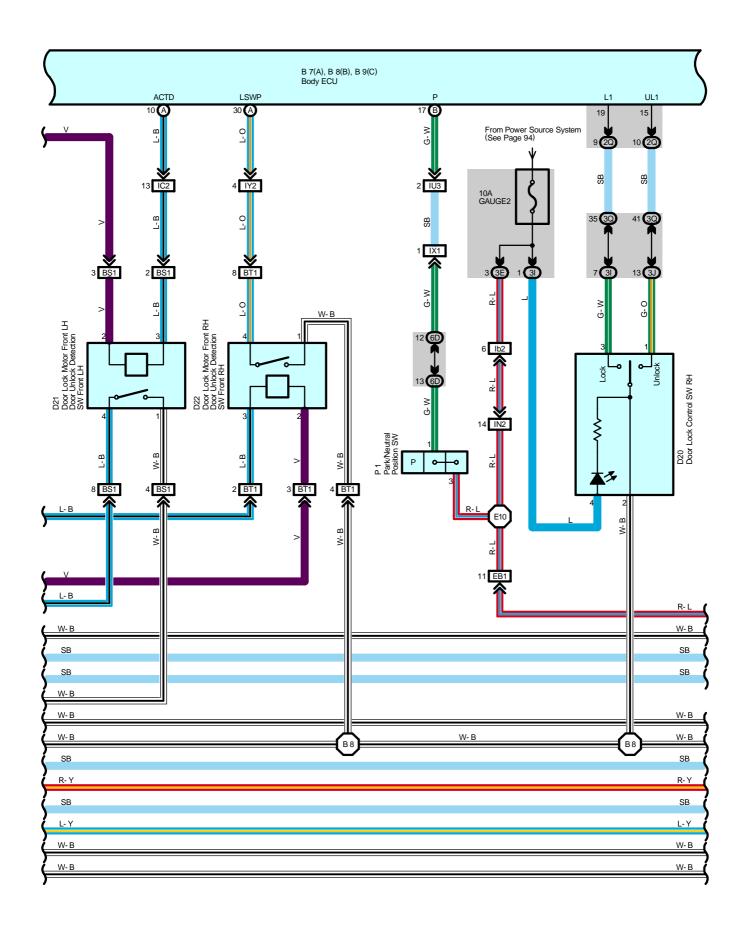


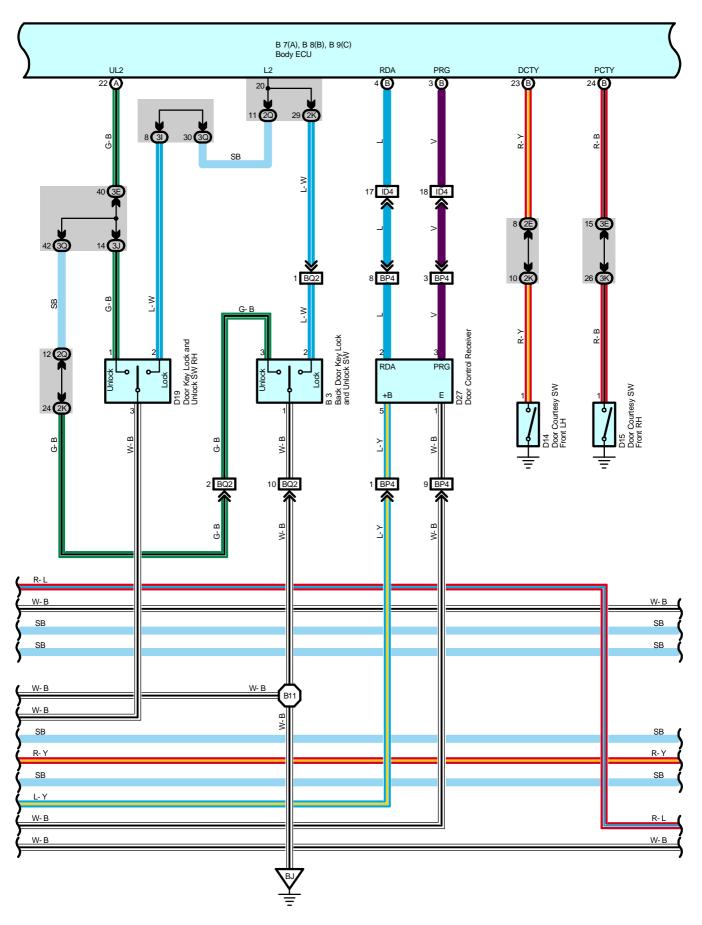


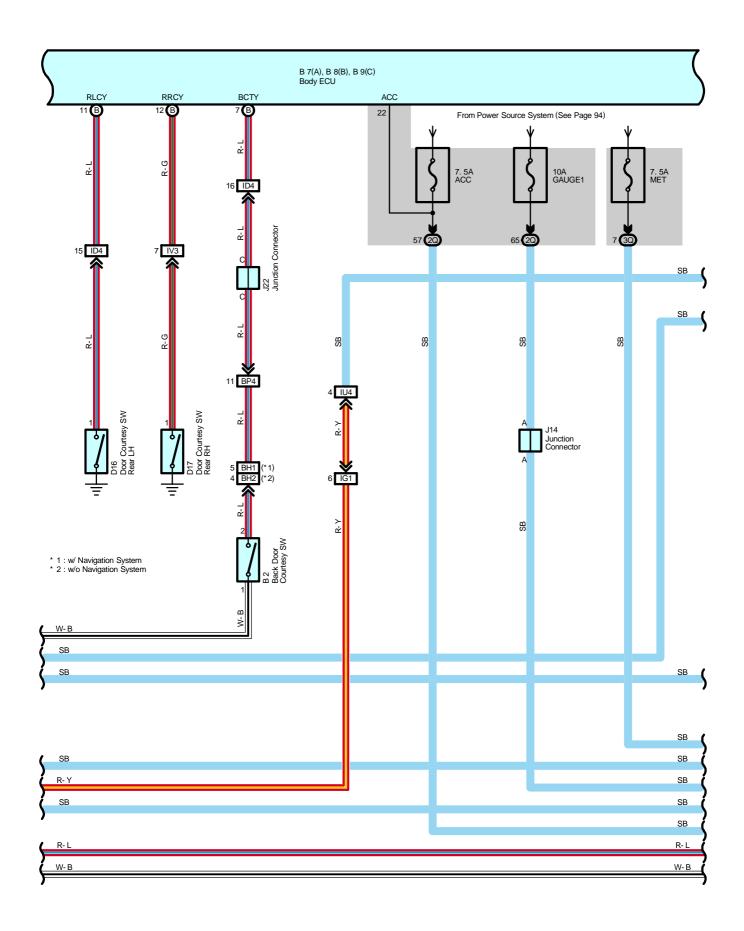


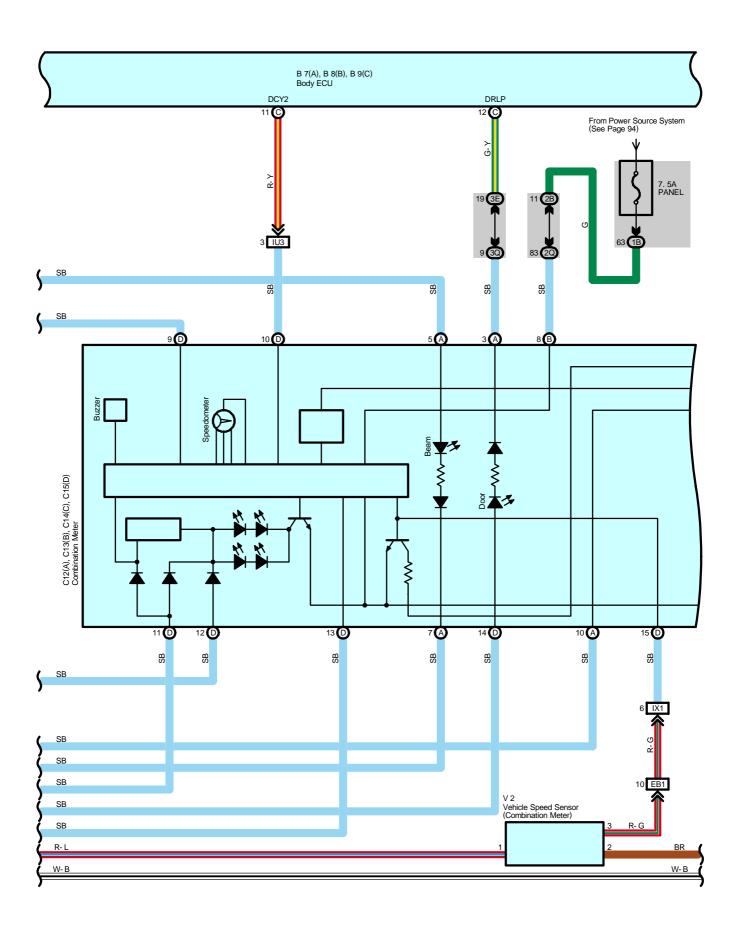


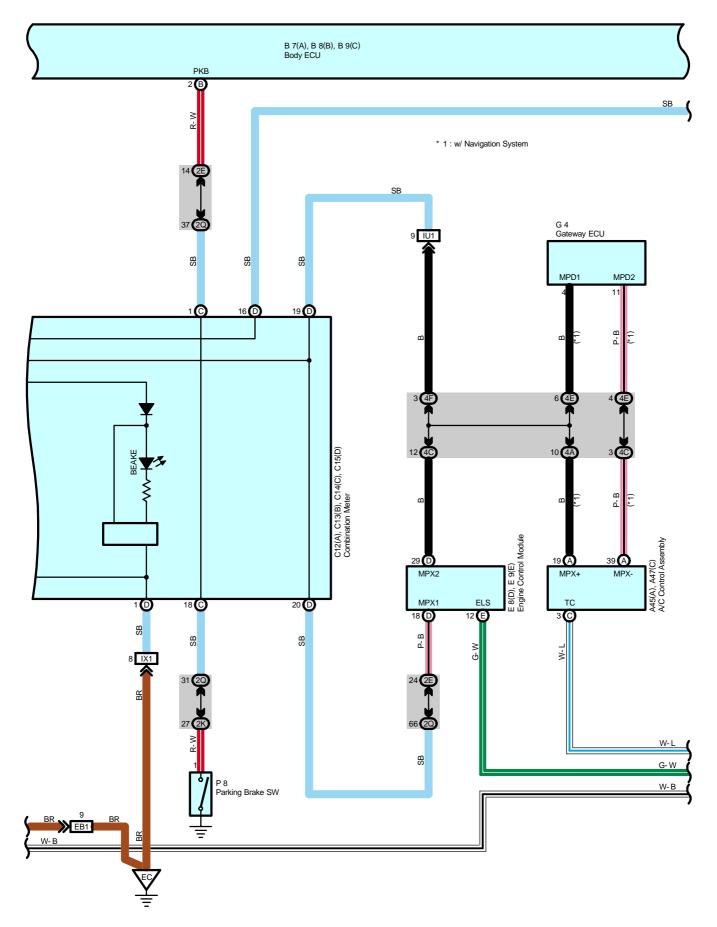


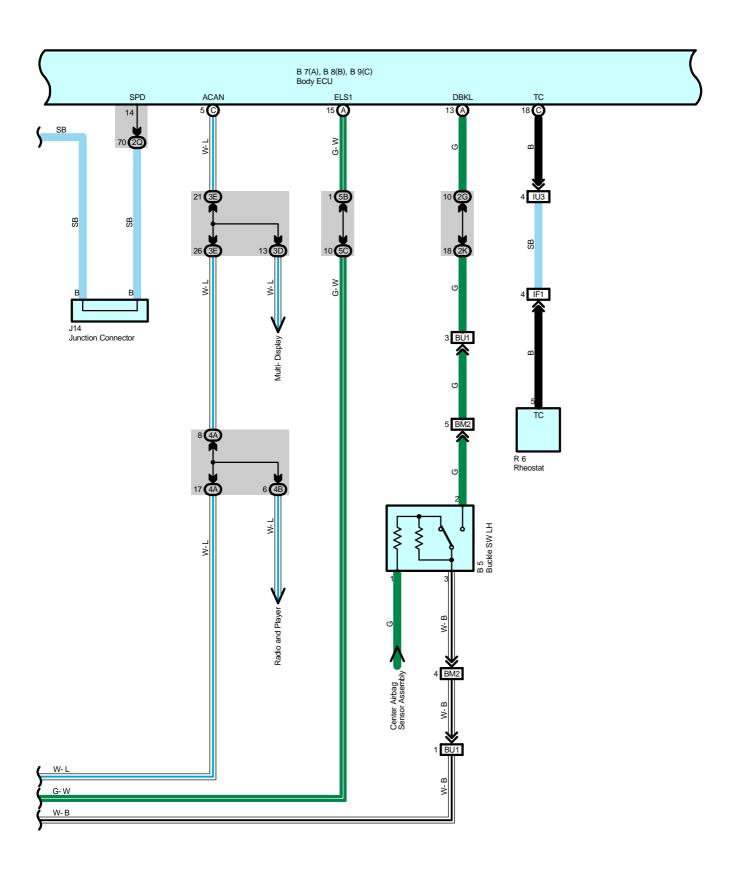


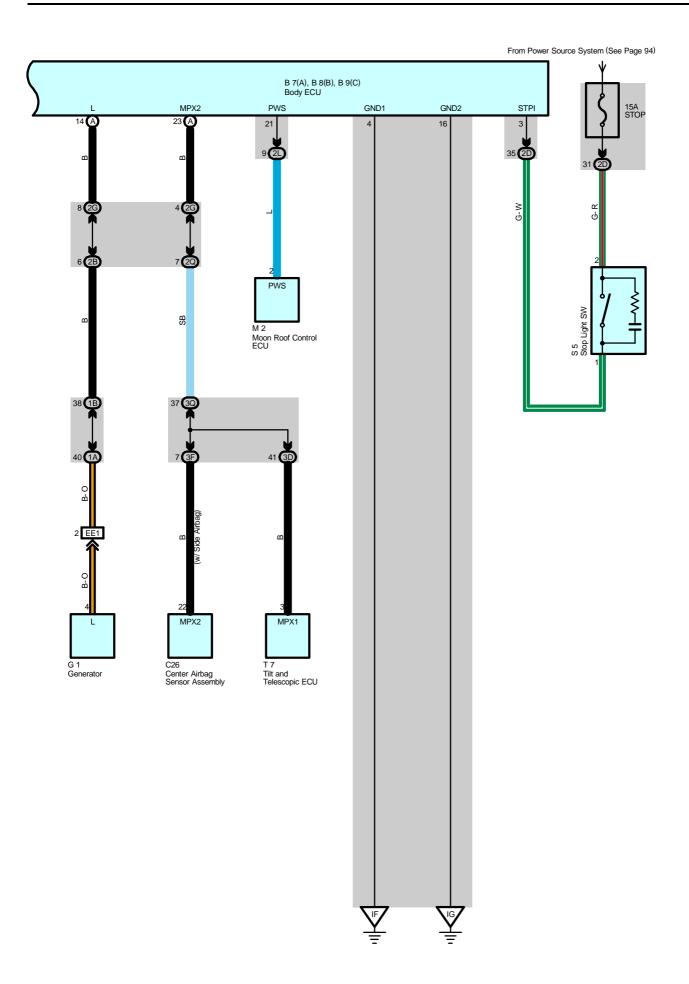












Multiplex Communication System

System Outline

The multiplex communication system communicates among the body ECU, theft deterrent ECU, power window master SW, power window control SW front RH, power window control SW rear LH, power window control SW rear RH, center airbag sensor assembly and tilt and telescopic ECU, among the combination meter, engine control module, A/C control assembly and gateway ECU and controls the following systems according to the signals from respective sensors or switches. For details, please refer to the new car features and/or the repair manual.

Service Hints

Body ECU

11, 12-Ground : Always approx. 12 volts

22-Ground: Approx. 12 volts with ignition SW at ACC or ON position 10-Ground: Approx. 12 volts with ignition SW at ON or ST position

4, 16-Ground: Always continuity

: Parts Location

Co	ode	See Page	Co	de	See Page	Co	de	See Page
A:	31	70	D.	18	72	J1	4	71
A45	Α	70	D.	19	72	J2	22	72
A47	С	70	D:	20	72	M	2	72
В	32	72	D:	21	72	M5	Α	71
В	33	72	D:	22	72	M9	В	71
В	34	72	D:	23	72	Р	1	69
В	35	74	D:	24	72	Р	8	73
B7	Α	70	D:	27	72	P1	12	73
B8	В	70	E	3	68	P1	14	73
B9	С	70	E8	D	70	P1	15	73
C12	Α	70	E9	Е	70	P1	16	73
C13	В	70	F	1	68	P1	17	73
C14	С	70	F	2	68	P1	18	73
C15	D	70	F′	10	72	P1	19	73
С	16	70	F11		72	P20		73
C	26	70	F15		68	R	6	71
D2	Α	68	G	1	68	R2	27	73
D3	В	68	G	i4	70	S	5	71
D)7	70	Н	1	69	Т	1	69
D	10	72	Н	2	69	T	5	71
D	11	72	Н	3	69	Т	7	71
D	12	72	Н	4	69	T10		71
D13		72	J	3	71	U		71
D14		72	J	6	71	V2		69
D	15	72	J	9	71	V	6	73
D	16	72	J ²	10	71	V	7	73
D	17	72	J	13	71	Z	1	71



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
1B	24	Engine Noom Main Wile and Engine Noom 6/2 (Engine Comparation Edit)				
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2A						
2B	- 28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2D						
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2G						
21						
2J	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)				
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3D						
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3F						
31	40	Front Door DLI Wire and Coud Side I/D DLI /Dight Wiel Done)				
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)				
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4B						
4C	52	Dach Wire and I/R No.4 (Instrument Panel Center)				
4D	J2	Dash Wire and J/B No.4 (Instrument Panel Center)				
4E						
4F						
5B	- 56	Dash Wire and J/B No.5 (Behind the Combination Meter)				
5C						
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)				
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)				
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)				

Multiplex Communication System

: Connector Joining Wire Harness and Wire Harness

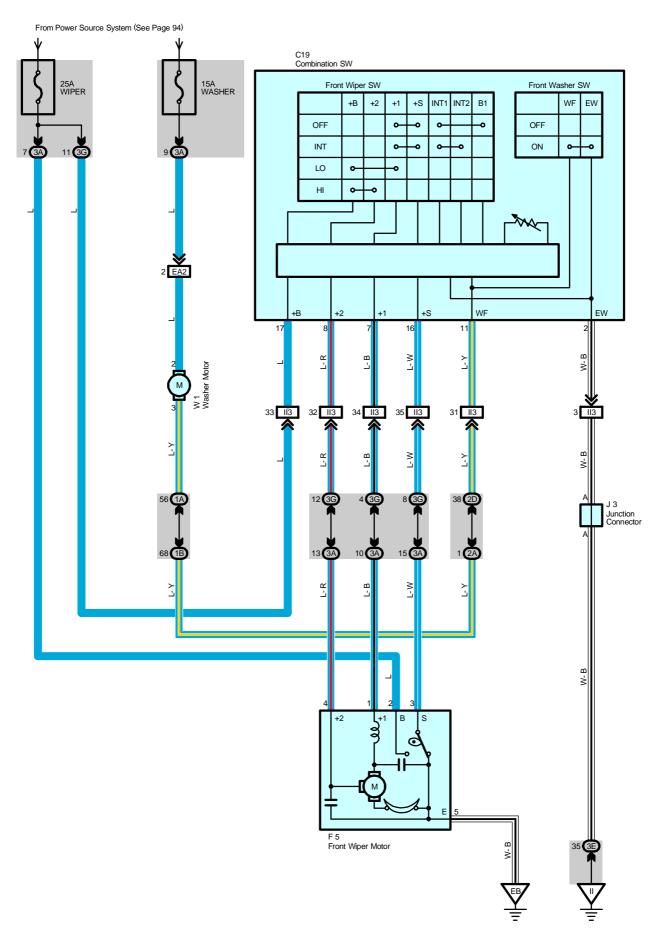
_							
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)					
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)					
EB1	76	Engine Wire and Transmission Wire (On the Transmission)					
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)					
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)					
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)					
IF1	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)					
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)					
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)					
II3	80	Dock Wire and Calumn Wire (Near the Innition CIVI)					
II5	80	Dash Wire and Column Wire (Near the Ignition SW)					
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)					
IM2	80	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)					
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)					
IU1							
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)					
IU4							
IV3	82	Dash Wire and Floor No 2 Wire (Pight Kick Panel)					
IV4	02	Dash Wire and Floor No.2 Wire (Right Kick Panel)					
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)					
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)					
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)					
BA3	86	Rear Door I H Wire and Floor No 1 Wire (Left Side of Center Biller)					
BA4	00	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)					
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)					
BC4	00	Treal Bool In Twile and Floor No.2 Wile (Night Gide of Genter Fillar)					
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)					
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)					
BH2	00						
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)					
BM2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)					
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)					
BP4							
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)					
BR1	88	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)					
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)					
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)					
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)					

Code	See Page	Ground Points Location			
EA	76	Front Right Side of Fender Apron			
EC	76	Rear Bank of Right Cylinder Head			
IF	70	Set Bolt of Cowl Side J/B LH			
IG	78	Set boil of Cowi Side 3/B LH			
II	78	Set Bolt of Cowl Side J/B RH			
BJ	86	Under the Driver's Seat			
BK	86	Front Side Under the Front Passenger's Seat			



: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	76	Engine Room Main Wire	B6	88	Floor No.1 Wire
E2	E2 76	Engine Room Main Wife	B7	88	Roof No.1 Wire
E10	76	Engine Wire	B8	88	Front Door RH Wire
E15	76	Engine Room Main Wire	B9	88	Floor No.2 Wire
B2	88	Front Door LH Wire	B11	88	Floor No.1 Wire
B4	00	Floor No.1 Wire	B15	88	Back Door Upper Wire
B5	88	Floor No.1 Wire			



System Outline

When the ignition SW turned on, the current from the WIPER fuse flows to the front wiper and washer SW TERMINAL 17, and the front wiper motor TERMINAL 2.

1. Low Position

When the front wiper SW is turned to LO position, the current flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 7 to the front wiper motor TERMINAL 1 to TERMINAL 5 to GROUND, and operates the front wiper motor at low speed.

2. High Position

When the front wiper SW is turned to HI position, the current flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 8 to the front wiper motor TERMINAL 4 to TERMINAL 5 to GROUND, and operates the front wiper motor at high speed.

3. INT Position

When the front wiper SW is turned to INT position, the relay operates and the current which is connected by the relay function flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 2 to GROUND, and operates the wipe. The intermittent operation is controlled by the charge/discharge function of the condenser installed in the relay, and the intermittent time is controlled by a time control SW to change the charging time of the condenser.

4. Washer Interlocking Operation

When the front washer SW is pulled up, the current flows from the washer motor TERMINAL 2 to TERMINAL 3 to the front wiper and washer SW TERMINAL 11 to TERMINAL 2 to GROUND, operates the washer motor and the window washer emits a water spray. This causes the current to flow to the washer continuous operation circuit in the front wiper and washer SW TERMINAL 11 to TERMINAL 7 to front wiper motor TERMINAL 1 to TERMINAL 5 to GROUND, and operates the wiper.

Service Hints

C19 Combination SW

17-Ground: Approx. 12 volts with ignition SW at ON or ST position

7-Ground: Approx. 12 volts with front wiper and washer SW at LO position

: Approx. 12 volts 1.6 to 10.7 seconds intermittently with the front wiper and washer SW at INT position

16-Ground: Approx. 12 volts with ignition SW on unless the front wiper motor at STOP position

8-Ground: Approx. 12 volts with front wiper and washer SW at HI position

2-Ground: Always continuity

F5 Front Wiper Motor

2-Ground: Approx. 12 volts with ignition SW at ON or ST position

5-Ground: Always continuity

) : Parts Location

Code	See Page	Code	See Page	Code	See Page
C19	70	J3	71		
F5	68	W1	69		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Doob Wire and Coul Cide I/D DLL (Dight Kiek Done)
3G	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

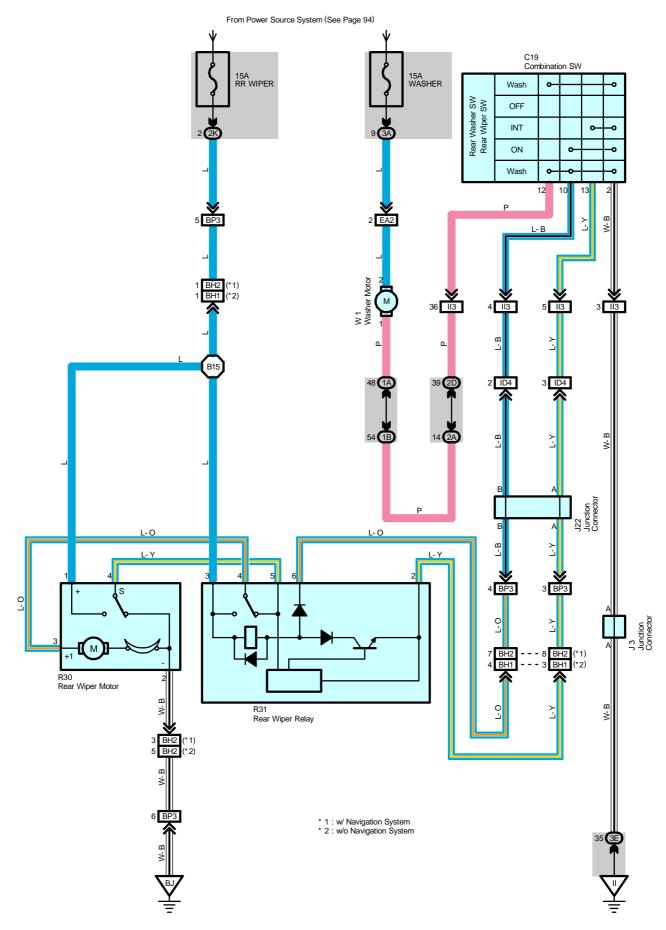
: Connector Joining Wire Harness and Wire Harness

Code	Sode See Page Joining Wire Harness and Wire Harness (Connector Location)	
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)

Front Wiper and Washer



Code	See Page	Ground Points Location
EB	76	Front Right Side of Fender Apron
II	78	Set Bolt of Cowl Side J/B RH



System Outline

When the ignition SW is turned on, the current flows from the WASHER fuse to washer motor TERMINAL 2, and the current flows from the RR WIPER fuse to rear wiper relay TERMINAL 3, and the rear wiper motor TERMINAL 1 respectively.

1. Rear Wiper Normal Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned to ON position, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 6 to the rear wiper and washer SW TERMINAL 10 to TERMINAL 2 to GROUND, and turns on the rear wiper relay. As a result, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 4 to the rear wiper motor TERMINAL 3 to TERMINAL 2 to GROUND, and operates the rear wiper.

2. Rear Wiper Intermittent Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned to INT position, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 2 to the rear wiper and washer SW TERMINAL 13 to TERMINAL 2 to GROUND, and the intermittent circuit in the rear wiper relay is controlled to operate the wiper intermittently.

3. Washer Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned from OFF to WASH position, the current flows from the WASHER fuse to the washer motor TERMINAL 2 to TERMINAL 1 to the rear wiper and washer SW TERMINAL 12 to TERMINAL 2 to GROUND. This activates the washer motor, and the window washer emits a water spray. When the rear wiper and washer SW is turned to ON position, the window washer emits a water spray during rear wiper normal operation.

Service Hints

W1 Washer Motor

2-Ground: Approx. 12 volts with ignition SW at ON or ST position1-Ground: Continuity with rear wiper and washer SW at WASH position

R30 Rear Wiper Motor

1-Ground: Approx. 12 volts with ignition SW at ON or ST position

2-Ground: Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C19	70	J22	72	R31	73
J3	71	R30	73	W1	69

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
II3	80	Dash Wire and Column Wire (Near the Ignition SW)			
BH1	00	Billow No. 4 Wire and Book Door Linner Wire /Left Side of Book Door)			
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			

Rear Wiper and Washer



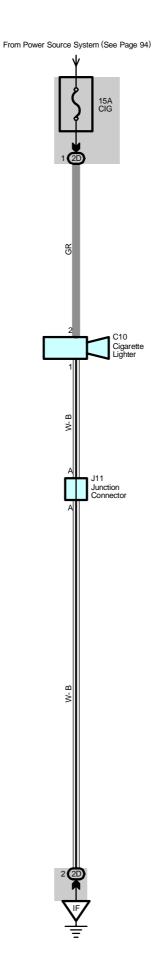
: Ground Points

Code	See Page	Ground Points Location	
II	78	Set Bolt of Cowl Side J/B RH	
BJ	86	Under the Driver's Seat	



: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B15	88	Back Door Upper Wire			



C10 Cigarette Lighter

 $\mbox{2-Ground}\,:\mbox{Approx.}\,\mbox{12 volts}$ with ignition SW at ACC or ON position

1-Ground: Always continuity

: Parts Location

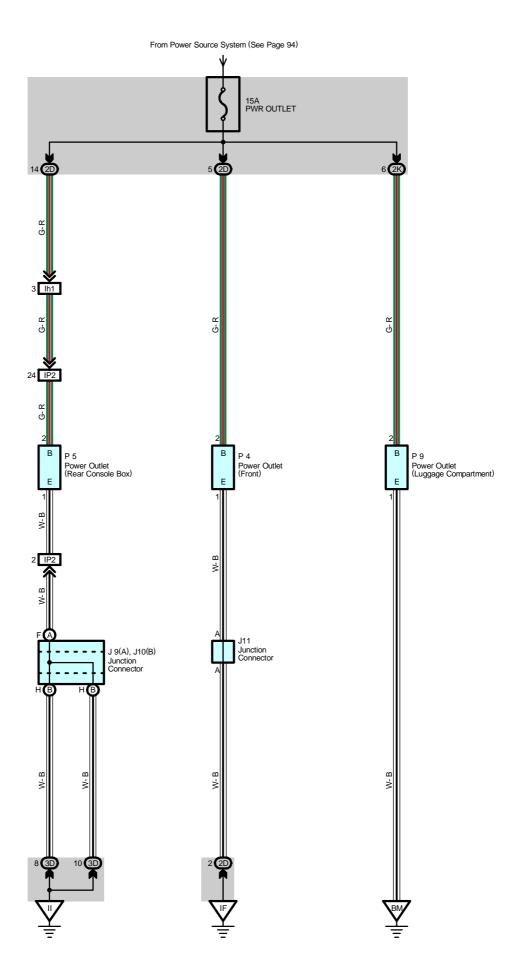
Ī	Code	See Page	Code	See Page	Code	See Page
Ī	C10	70	J11	71		

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: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)	

	Code	See Page	Ground Points Location
I	IF	78	Set Bolt of Cowl Side J/B LH



P4 Power Outlet (Front)

2-Ground: Approx. 12 volts with ignition SW at ACC or ON position

1-Ground: Always continuity

P5 Power Outlet (Rear Console Box)

2-Ground: Approx. 12 volts with ignition SW at ACC or ON position

1-Ground: Always continuity

P9 Power Outlet (Luggage Compartment)

2-Ground: Approx. 12 volts with ignition SW at ACC or ON position

1-Ground: Always continuity

) : Parts Location

С	ode	See Page	Code	See Page	Code	See Page
J9	Α	71	J11	71	P5	71
J10	В	71	P4	71	P9	73

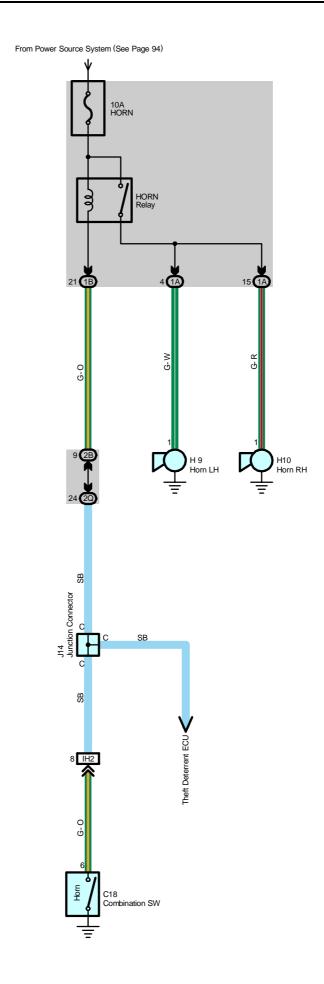
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)	
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)	
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)	

: Connector Joining Wire Harness and Wire Harness

	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
ĺ	IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)	
ĺ	lh1	84	Dash Wire and Dash Wire (Center Side of Front Console)	

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BM	86	Left Rear Side Quarter Panel



C18 Combination SW

6-Ground :Continuity with horn SW on

: Parts Location

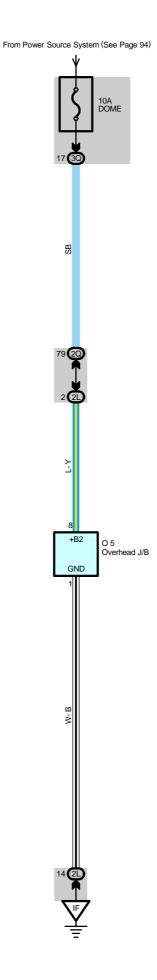
Code	See Page	Code	See Page	Code	See Page
C18	70	H10	69		
H9	69	J14	71		

: Junction Block and Wire Harness Connector

Code	See Page	unction Block and Wire Harness (Connector Location)	
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)	
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)	
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)	
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)



O5 Overhead J/B

8-Ground: Always approx. 12 volts 1-Ground: Always continuity

: Parts Location

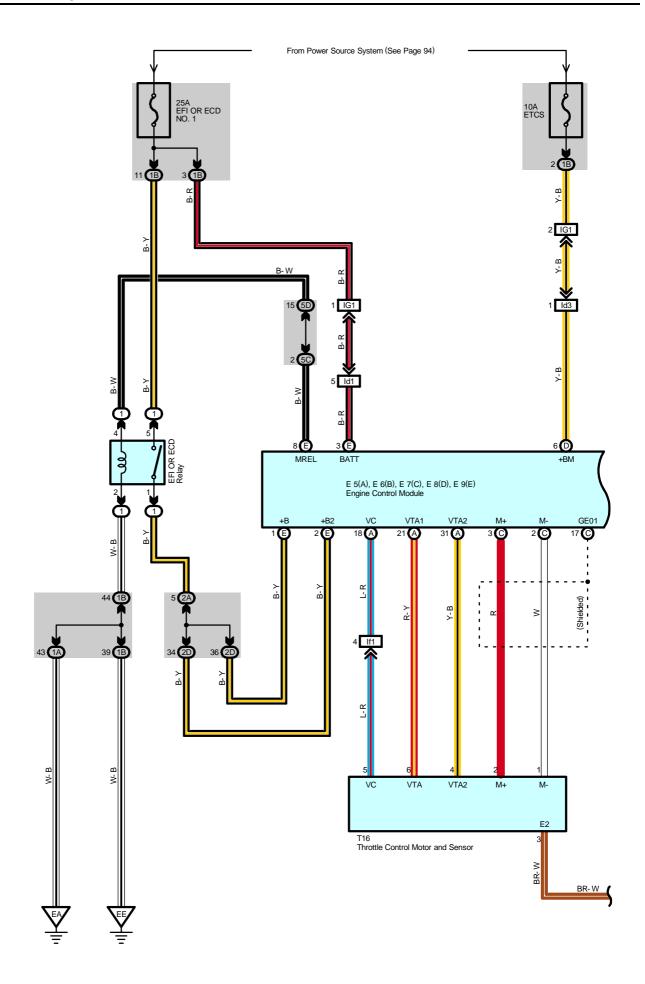
Code	See Page	Code	See Page	Code	See Page
O5	72				

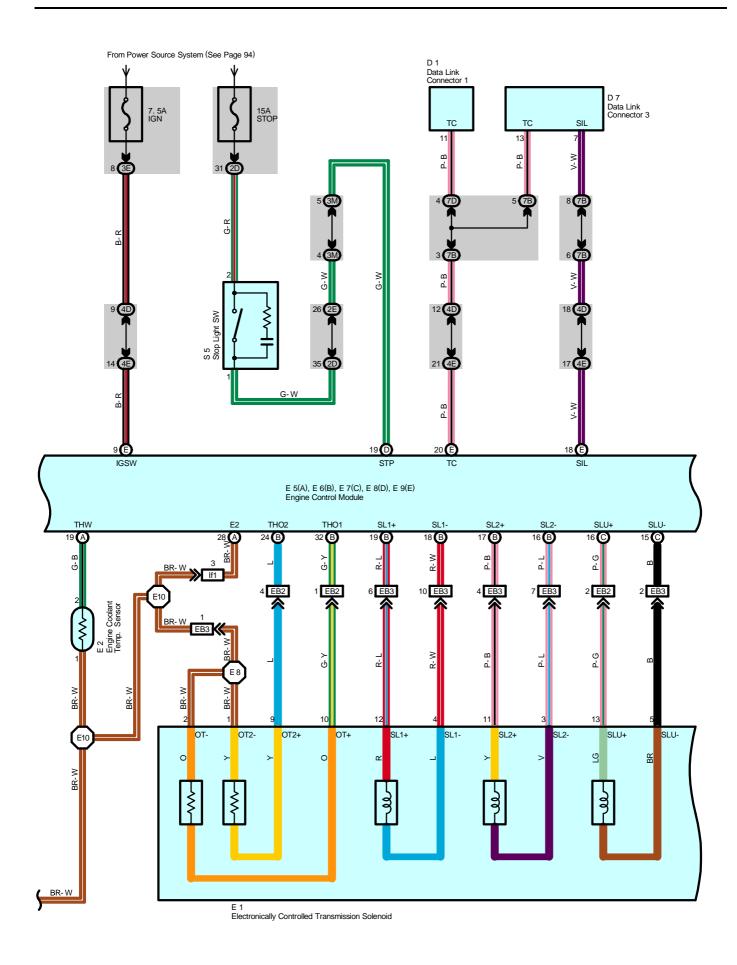
: Junction Block and Wire Harness Connector

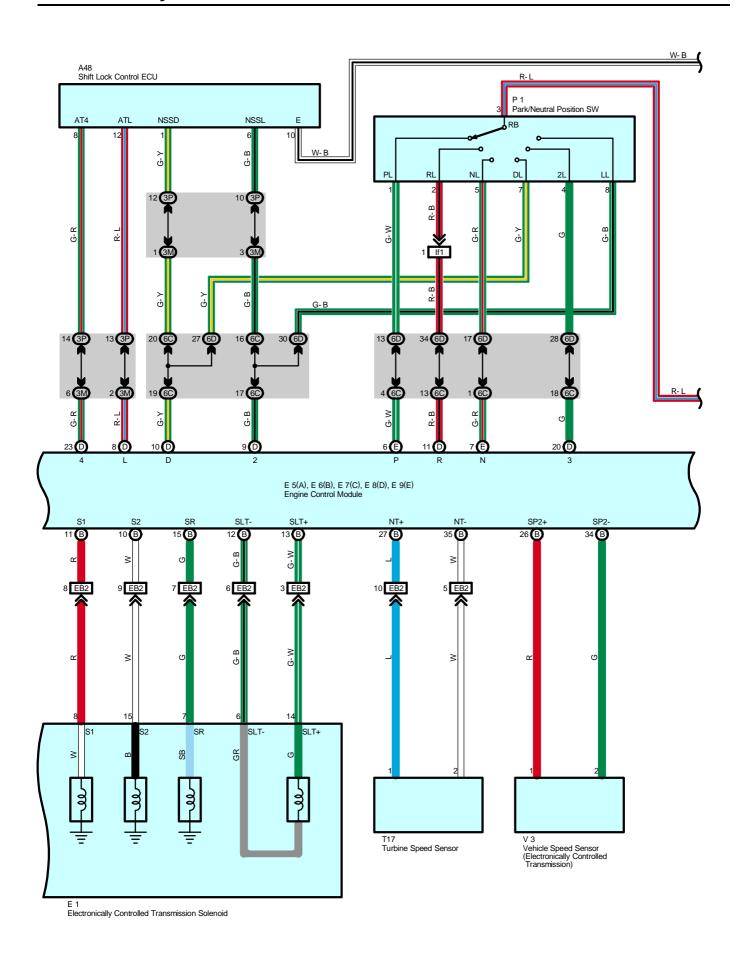
Code	See Page	Junction Block and Wire Harness (Connector Location)
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

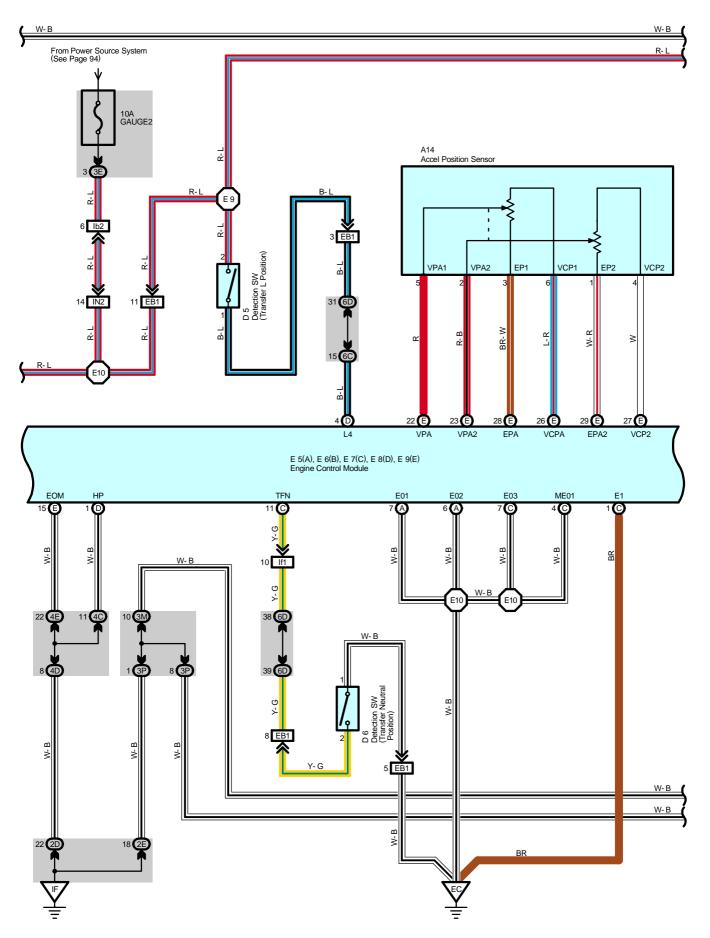
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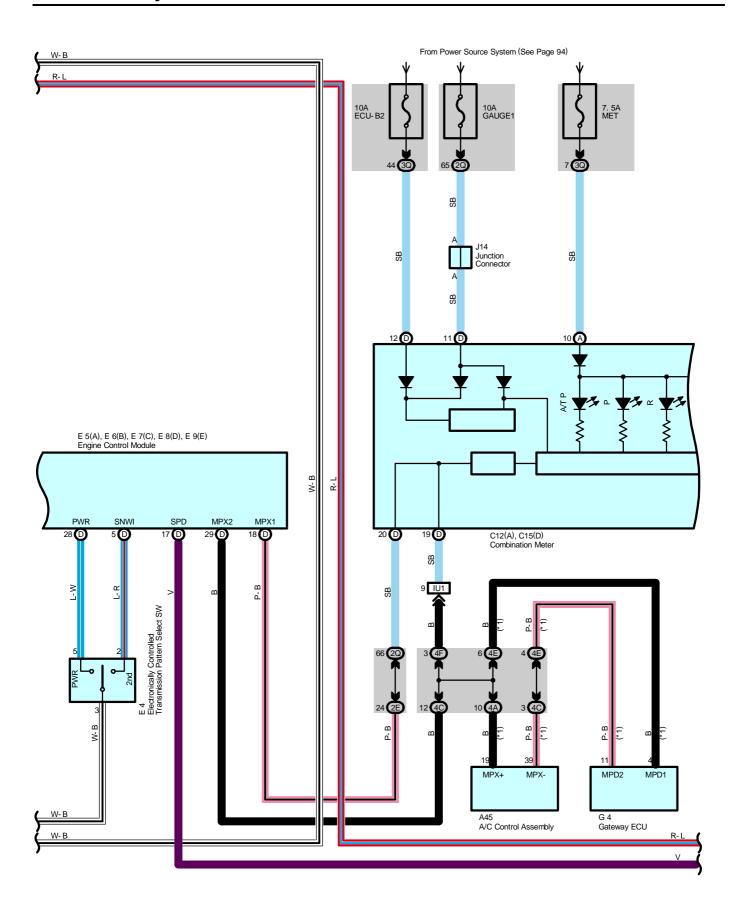
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

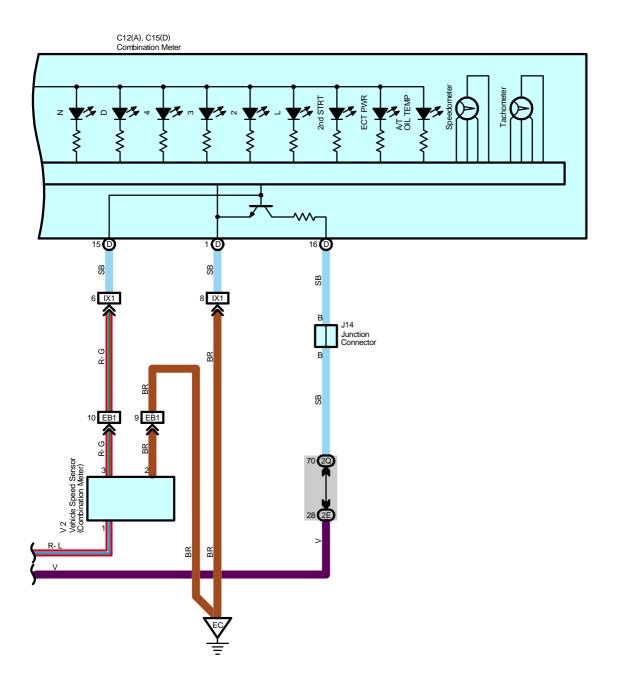












Electronically Controlled Transmission and A/T Indicator

System Outline

Previous automatic transmissions have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock-up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure, throttle pressure, lock-up pressure and accumulator pressure etc. through the solenoid valve. The electronically controlled transmission is a system which precisely controls gear shift timing and lock-up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal from vehicle speed sensor is input to TERMINAL SP2+ of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1 and VTA2 of the engine control module as throttle angle signal.

Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. Line Hydraulic Pressure Control

The engine control module adjusts the line hydraulic pressure to the optimal level by controlling TERMINAL SLT+ of the module according to the engine torque data. This realizes the smooth gear shifting.

3. High Response Gear Shifting Control

The engine control module performs the high response engine torque up control to control the ignition-timing lag as well as opening the electronic throttle when shifting down. By doing this, the gear shifting is performed in a short period of time. Moreover, the engine control module uses the orifice switching control, which optimizes the speed of applying and reducing the hydraulic pressure. And it realizes the fine shifting condition by applying and reducing hydraulic pressure slowly when the gear shifting shock is important and quickly when the high response is required.

4. Clutch Hydraulic Pressure Control

The engine control module controls the clutch operation in the optimal timing and with the best hydraulic pressure according to the engine torque data and the number of the clutch revolution

5. Lock-Up and Flexible Lock-Up Control

The engine control module carries out the lock-up control by controlling the TERMINAL SLU+ of the module according to the shift position, vehicle speed, throttle opening degree and running conditions. The engine control module also steadily keeps applying the lock-up clutch a delicate slippage to improve the transmission efficiency (Fuel efficiency) of the torque converter.

6. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock-up condition, a signal is input to TERMINAL STP of the engine control module. The engine control module operates and cuts the current to the solenoid to release lock-up.

7. Ai-Shift Control

The engine control module judges whether the road is downslope or upslope by detecting the throttle opening degree or the vehicle's speed. Moreover it can expect the winding roads by detecting the turning condition of the vehicle. The engine control module keeps unnecessary shifting up from the fourth gear from operating and carries out the automatic shifting down to the third gear in order to control the vehicle running according to the road conditions. The engine control module also reads the driver's intention during driving from his (her) accelerating operation and the running conditions of the vehicle. As a result of that, ideal shifting patters for each driver are automatically selected without any switching operations.

8. Electronically Controlled Transmission Pattern Select SW Circuit

When the electronically controlled transmission pattern select SW is switched to PWR, a signal is input to TERMINAL PWR of the engine control module. This enables shift-up and shift-down at a higher speed range.

9. Transfer Shift Operation

When the transfer shift lever is moved to L position, a signal is input into TERMINAL L4 of the engine control module. In addition when the transfer shift lever is moved to N position a signal is input to engine control module TERMINAL TFN. The engine control module detects the transfer condition through this.

E4 Electronically Controlled Transmission Pattern Select SW

5-3 : Closed with select SW at PWR position2-3 : Closed with select SW at 2nd position

E7 (C), E9 (E) Engine Control Module

BATT-E1: Always 9.0-14.0 volts

+B-E1 : 9.0-14.0 volts with ignition SW at ON or ST position +B2-E1 : 9.0-14.0 volts with ignition SW at ON or ST position IGSW-E1 : 9.0-14.0 volts with ignition SW at ON or ST position

P1 Park/Neutral Position SW

3-1: Closed with shift lever in P position
3-2: Closed with shift lever in R position
3-5: Closed with shift lever in N position
3-7: Closed with shift lever in D position
3-4: Closed with shift lever in 2 position
3-8: Closed with shift lever in L position

: Parts Location

Co	de	See Page	Co	de	See Page	Code	See Page
A1	14	70	E1		68	J14	71
A4	1 5	70	E2		68	P1	69
A4	18	70	E4		70	S5	71
C12	Α	70	E5	Α	70	T16	69
C15	D	70	E6	В	70	T17	69
D	1	68	E7	С	70	V2	69
D	5	68	E8	D	70	V3	69
D	6	68	E9 E		70		
D	7	70	G	4	70		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

Electronically Controlled Transmission and A/T Indicator

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: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2D	00	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	- 28				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3E	40				
3M	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3P	43				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A					
4C		Dash Wire and J/B No.4 (Instrument Panel Center)			
4D	52				
4E					
4F					
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)			
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)			
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)			
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)			
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)			
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)			

: Connector Joining Wire Harness and Wire Harness

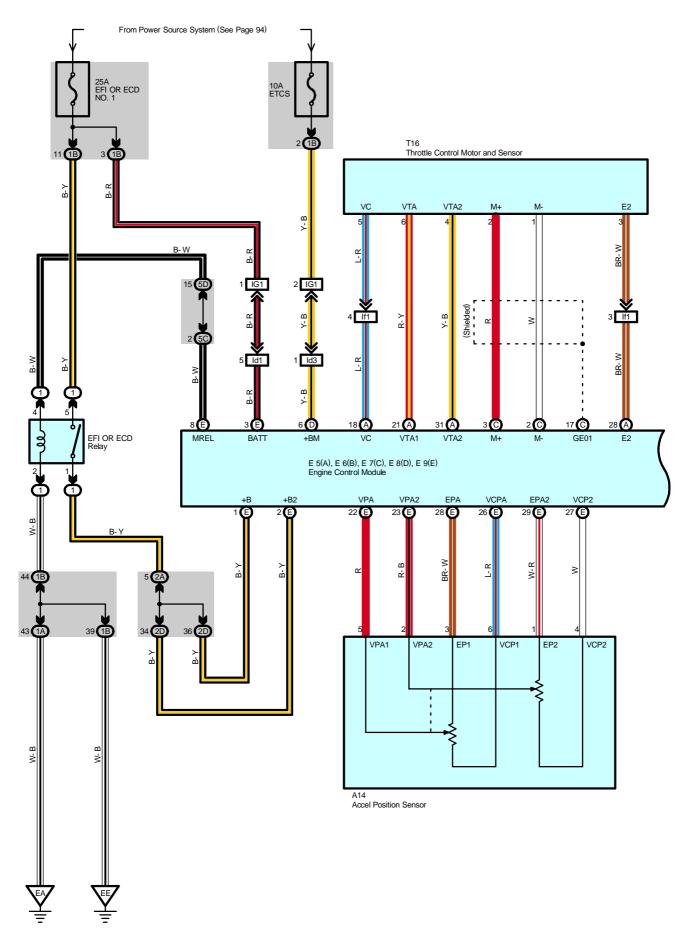
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1		
EB2	76	Engine Wire and Transmission Wire (On the Transmission)
EB3		
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
ld1	0.4	Dook Wire and Dook Wire (Instrument Bonel Center)
ld3	84	Dash Wire and Dash Wire (Instrument Panel Center)
lf1	84	Engine Wire and Engine Wire (Behind the Glove Box)

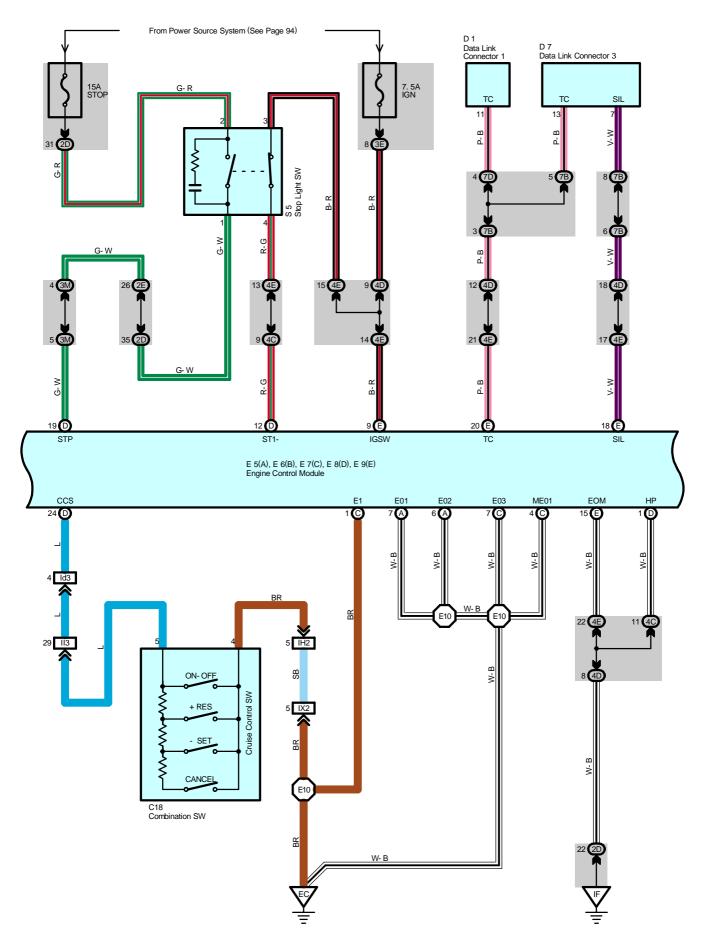
: Ground Points

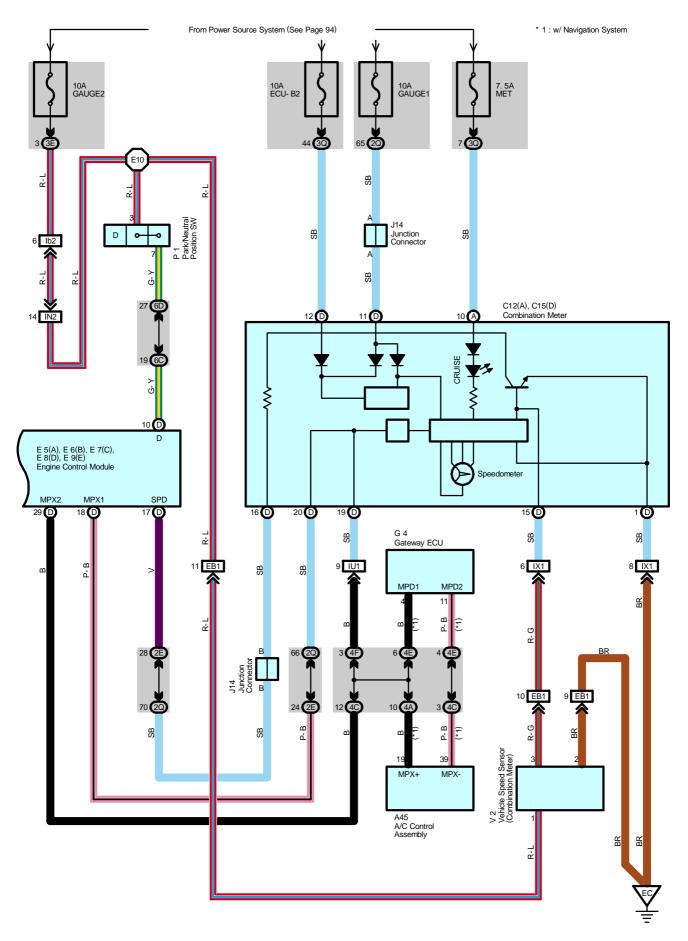
•		
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	E8 76	Transmission Wire	E10	76	Engine Wire
E9	10				







The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

Set Operation

When the ON-OFF SW is turned on, the systems starts preparations for cruise control and turns on the indicator light in the combination meter.

Set Speed Control

When the - SET SW is operated with the ON-OFF SW turned on during driving, the speed is controlled at a constant speed.

Coast Control

When the - SET SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to decelerate the vehicle speed.

Every time the - SET SW is turned on instantaneously, the vehicle speed is decelerated approx. 1.5 km/h.

Accel Control

When the + RES SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to accelerate the vehicle speed.

Every time the + RES SW is turned on instantaneously, the vehicle speed is accelerated approx. 1.5 km/h.

Resume Contro

If the vehicle speed is within the low speed limit (Approx. 40 km/h, 25 mph) when canceling the cruise control, operation of the + RES SW accelerates the vehicle speed and resumes the level before canceling the cruise control.

Manual Cancel Mechanism

If any of the following signals are input during cruise control driving, the cruise control is canceled.

- * The stop light SW is on
- * The CANCEL SW is turned on
- * The ON-OFF SW is turned off

Auto Cancel Function

If any of the following conditions are detected, the cruise control is canceled:

- * Failure in the stop light SW wiring
- * Abnormality in the vehicle speed signal
- * Malfunction in the electronically controlled throttle parts

Overdrive Function

The overdrive may be canceled if the vehicle travels on a upward slope during cruise control driving. After the overdrive is canceled, if the vehicle speed exceeds the overdrive return speed (Set speed (2 km/h, 1.2 mph)) and it is determined that the slope has finished, and the vehicle returns to overdrive mode again.

Service Hints

E7 (C), E8 (D), E9 (E) Engine Control Module

BATT-E1: Always 9.0-14.0 volts

IGSW-E1: 9.0-14.0 volts with ignition SW at ON or ST position

STP-E1: 7.5-14 volts with brake pedal is depressed: Below 1.5 volts with brake pedal is released

C18 Combination SW

5-4 : Approx. 1540 Ω with CANCEL SW on : Approx. 240 Ω with + RES SW on : Approx. 630 Ω with - SET SW on

: Parts Location

Co	de	See Page	Code		See Page	Code	See Page
A14		70	D7		70	G4	70
A	45	70	E5	Α	70	J14	71
C12	Α	70	E6	В	70	P1	69
C15	D	70	E7	С	70	S5	71
C.	18	70	E8	D	70	T16	69
D	1	68	E9	Е	70	V2	69

Cruise Control

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

0

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2E	728					
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3E	40	Doob Wire and Coul Side I/P DH (Pight Kick Bone))				
ЗМ	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4C		Dash Wire and J/B No.4 (Instrument Panel Center)				
4D	52					
4E						
4F						
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)				
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)				
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)				
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)				
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)				
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)				

: Connector Joining Wire Harness and Wire Harness

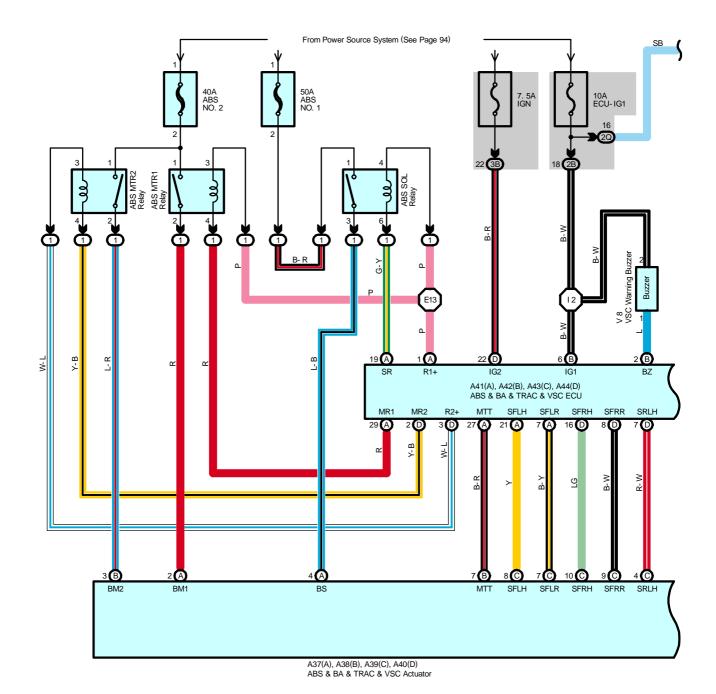
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EB1	76	Engine Wire and Transmission Wire (On the Transmission)			
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)			
II3	80	Dash Wire and Column Wire (Near the Ignition SW)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IX1	00	Instrument Denel Integration Wire and Engine Wire (Dehind the Claus Day)			
IX2	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
ld1	0.4	Dook Wire and Dook Wire (Instrument Donal Contex)			
ld3	84	Dash Wire and Dash Wire (Instrument Panel Center)			
lf1	84	Engine Wire and Engine Wire (Behind the Glove Box)			

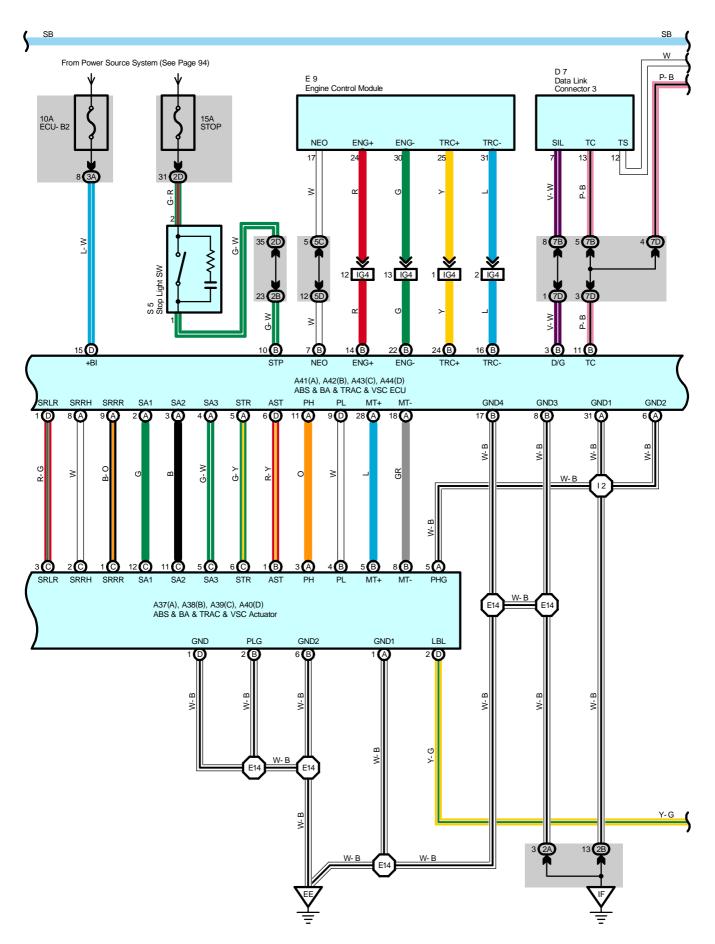
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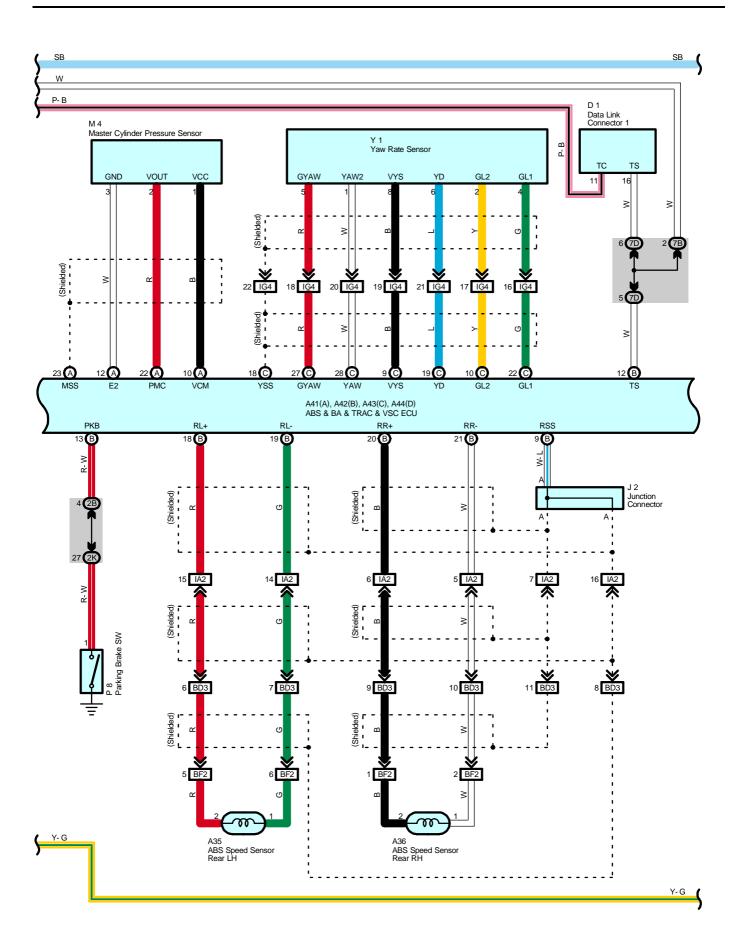
: Ground Points

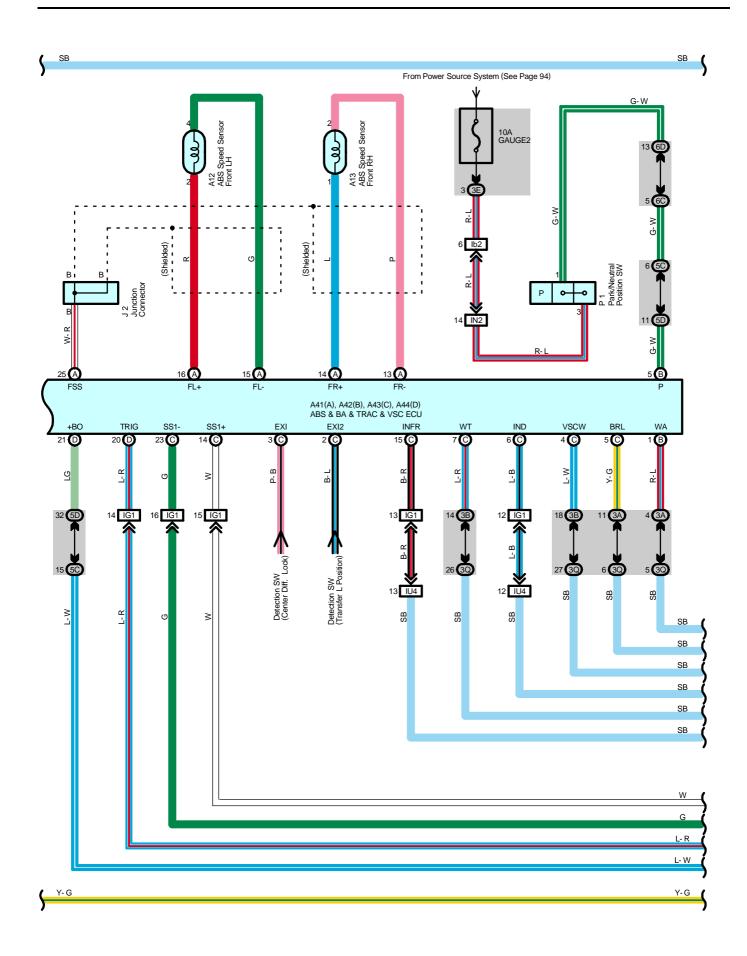
Code	See Page	Ground Points Location
Code	See Fage	Cround Forms Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH

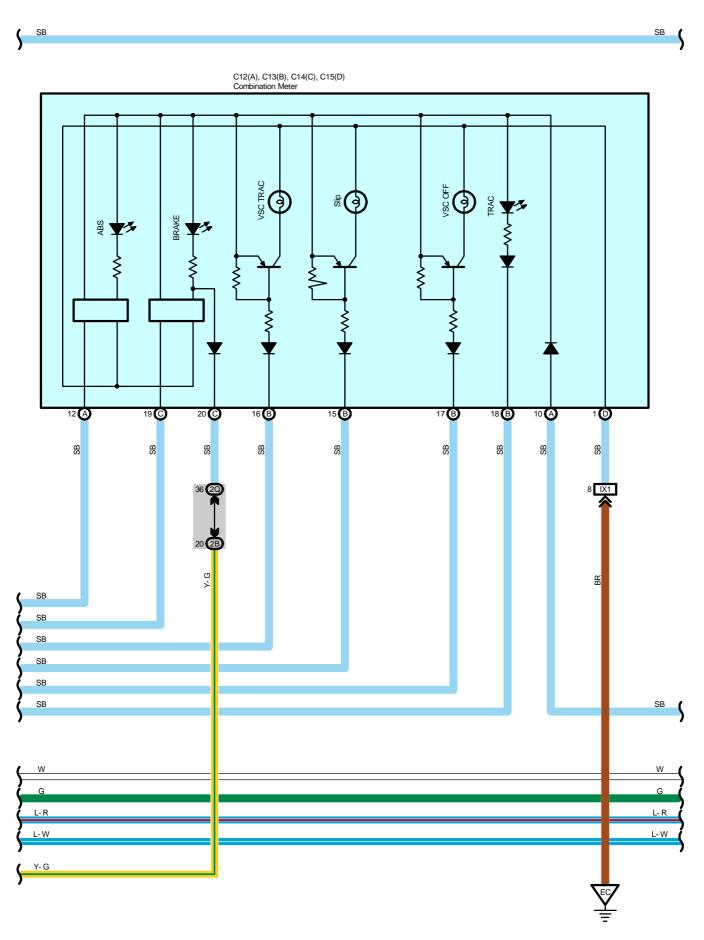
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire			

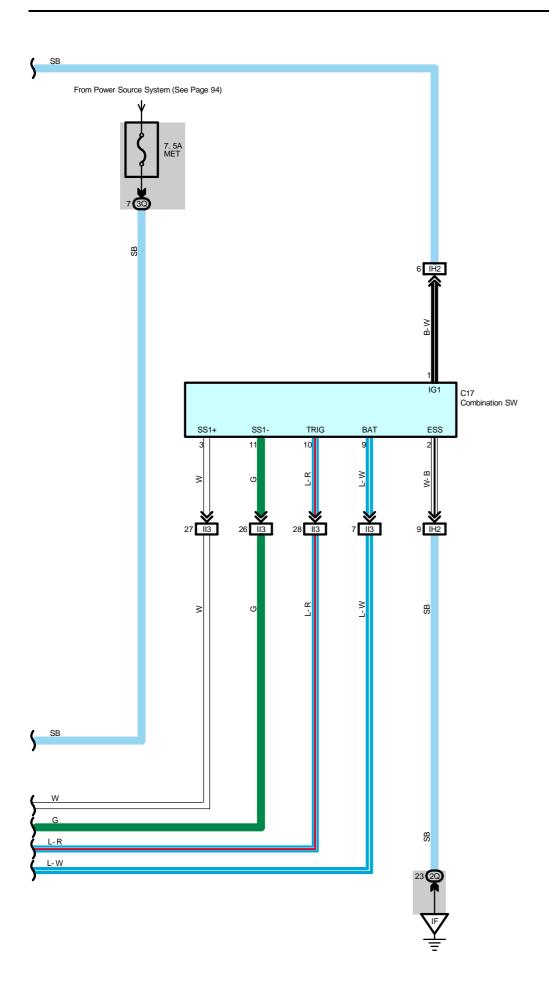












1. ABS Operation

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the ABS & BA & TRAC & VSC ECU controls the solenoids in the actuators using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the ABS & BA & TRAC & VSC ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

2. Traction Control Operation

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

3. VSC Operation

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under- or over-steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under- or over-steering.

To reduce large over-steering:

If the VSC system determines that the over-steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over-steering to produce the moment toward the outside of the vehicle and reduce the over-steering. To reduce large under-steering:

If the VSC system determines that the under-steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under-steering.

VSC indicator light

If an error occurs in the VSC system, the VSC indicator lights up to warn the driver.

4. Traction Mode and VSC Function

When the center differential of the transfer is locked, the VSC function is turned off. At this time, the VSC OFF indicator light in the combination meter will come on, and informs the driver that the VSC function is OFF.

5. Mutual System Control

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

Engine throttle control

The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the engine output.

Engine control and electronically controlled transmission control

The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel. and reducing changes in the driving torque at shift-down.

VSC system operation indication

The slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

6. Fail Safe Function

If an error occurs in the ABS & BA & TRAC & VSC ECU, sensor signals, and/or actuators, the ABS & BA & TRAC & VSC ECU inhibits the brake actuator control and inputs the error signal to the engine control module. According to the error signal, the brake actuator turns off the solenoid and the engine control module rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions without the ABS, BA, TRAC, and VSC systems.

Service Hints

A41 (A), A42 (B), A44 (D) ABS & BA & TRAC & VSC ECU

(D)15-Ground: Always approx. 12 volts

(B) 6-Ground : Approx. 12 volts with ignition SW at ON or ST position (D)22-Ground : Approx. 12 volts with ignition SW at ON or ST position

(B)10-Ground: Approx. 12 volts with brake pedal depressed

(A) 6, (A) 31, (B) 8, (B) 17-Ground: Always continuity

A12 ABS Speed Sensor Front LH

2-4 : Approx. 1.07 kΩ (20 °C, 68 °F)

A13 ABS Speed Sensor Front RH

1-2 : Approx. 1.07 k Ω (20 °C, 68 °F)

A35, A36 ABS Speed Sensor Rear LH, RH

1-2 : Approx. 1.2 kΩ (25 °C, 77 °F)

: Parts Location

Co	de	See Page	Co	de	See Page	Code	See Page
A12		68	A42	В	70	D7	70
A13		68	A43	С	70	E9	70
A3	35	72	A44	D	70	J2	71
A3	36	72	C12	Α	70	M4	69
A37	Α	68	C13	В	70	P1	69
A38	В	68	C14	С	70	P8	73
A39	С	68	C15	D	70	S5	71
A40	D	68	C1	17	70	V8	71
A41	Α	70	D	1	68	Y1	71

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
2A	00	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2B	28					
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3A	40	Francisco Decembra Company and Company (Control VID DITA (Control VID DITA (Control VID DITA))				
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)				
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)				
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)				
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)				
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)				
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)				

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
IG1	70	Engine Deem No 2 Wire and Deep Wire (Debind the Combination Mater)
IG4	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU4	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BD3	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BF2	86	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)

∇

: Ground Points

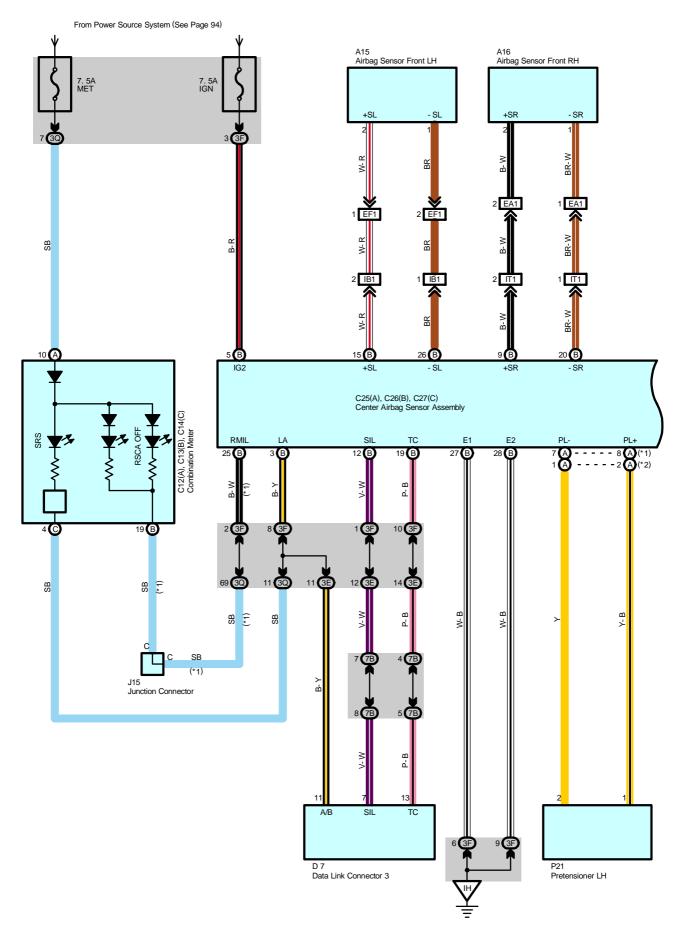
Code	See Page	Ground Points Location			
EC	76	Rear Bank of Right Cylinder Head			
EE	76	Front Left Side of Fender Apron			
IF	78	Set Bolt of Cowl Side J/B LH			



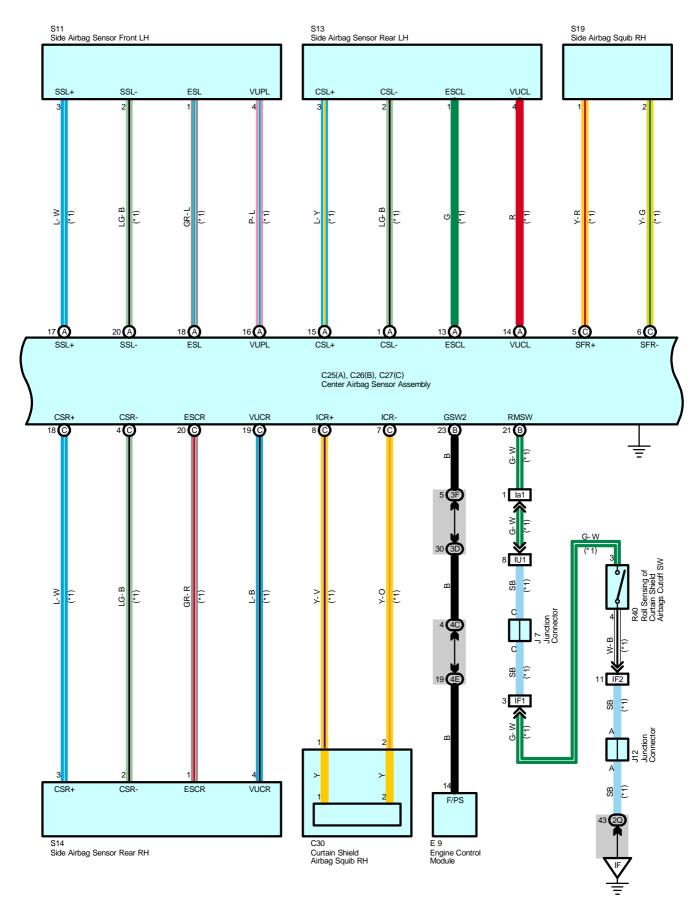
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	70	Engine Room No.2 Wire	12	80	Engine Room No.2 Wire
E14	76				

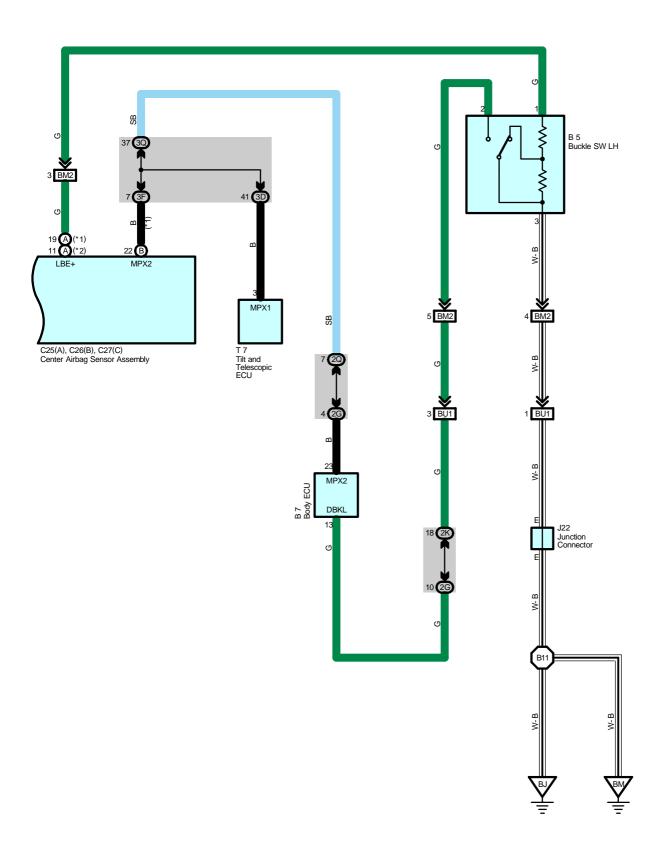
NOTICE: When inspecting or repairing the SRS, perform the operation in accordance with the following precautionary instructions and the procedure and precautions in the Repair Manual for the applicable model year.

- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information
 when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- Work must be started after 90 seconds from when the ignition switch is turned to the "LOCK" position and the
 negative (-) terminal cable is disconnected from the battery.
 (The SRS is equipped with a back-up power source so that if work is started within 90 seconds from
 disconnecting the negative (-) terminal cable of the battery, the SRS may be deployed.)
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. This vehicle has power tilt and power telescopic steering, power seat and power outside rear view mirror which are all equipped with memory function. However, it is not possible to make a record of the memory contents. So when the work is finished, it will be necessary to explain this fact tot the customer, and ask the customer to adjust the features and reset the memory. To avoid erasing the memory in each memory system, never use a back-up power supply from outside the vehicle.
- Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- Do not expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag
 assembly, seat belt pretensioner, center airbag sensor assembly, front airbag sensor assembly or side airbag sensor
 assembly directly to hot air or flames.
- Even in cases of a minor collision where the SRS does not deploy, the steering wheel pad, front passenger airbag
 assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, center airbag sensor assembly,
 front airbag sensor assembly and side airbag sensor assembly should be inspected.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, center airbag sensor assembly, front airbag sensor assembly or side airbag sensor assembly in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat
 belt pretensioner, center airbag sensor assembly, front airbag sensor assembly or side airbag sensor assembly has
 been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new
 ones.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the notices.
- After work on the SRS is completed, perform the SRS warning light check.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.



* 1 : w/ Side Airbag * 2 : w/o Side Airbag A28 Airbag Squib (Steering Wheel Pad) S18 Side Airbag Squib LH A27 Airbag Squib (Front Passenger Airbag Assembly) ٧-٥ Y-B Y-GR Y-G 3 114 4 114 ٧-٥ 17 B D2+ D2-SFL+ SFL-C25(A), C26(B), C27(C) Center Airbag Sensor Assembly SSR-LSP+ LSP-SSR+ ESR VUPR ICL+ ICL-10 **(C)** 4 (A) 3 (A) (*1) - 8 (A) (*2) 16 C 13 **C** 15 C 17 C 9 (A) 10 (A) Y-B ۲-Y-0 (1) FG (£ GR (1) ۳ (SSR+ SSR-ESR VUPR C29 Curtain Shield Airbag Squib LH S12 Side Airbag Sensor Front RH S17 Seat Position Sensor P22 Pretensioner RH





- * The SRS airbag are provided for the driver and front passenger. The SRS airbags have been designed to help reducing the shocks to the heads and chests of the driver and front passenger in the event of a severe frontal impact collision as supplements to the seat belts.
 - This system is a 3-sensor type airbag system to detect the impact during a front collision using the center airbag sensor assembly and airbag sensor front LH, RH, and to make the airbag system and pretensioner operate as well.
- * In this system, a front side collision is detected by the side airbag sensor front LH, RH in order to simultaneously deploy the side and curtain shield airbags. A rear side collision is detected by the side airbag sensor rear LH, RH in order to deploy only the curtain shield airbag.
- * Roll sensing of curtain shield airbags control has been adopted in order to deploy the curtain shield airbags and the pretensioners for the driver and front passenger, in the event that the vehicle rolls over.
 - A roll sensing of curtain shield airbags cutoff SW is provided on the driver side of the instrument panel to enable the driver to disable this system.
- * Dual-stage SRS airbags system, that controls the airbag inflating output optimum by judging the extent of impact and seat position (Driver seat), has been used for the driver and front passenger airbags.
- * In accordance with the adoption of the dual-stage SRS airbag system, a seat position sensor has been established for the driver seat.
- * This system has adopted a fuel cut control that stops the fuel pump when the airbag is deployed.

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page
A ²	A15 68		C27 C	70	R40	71
A16		68	C29	72	S11	73
A2	27	70	C30	72	S12	73
A2	28	70	D7	70	S13	73
В	5	74	E9	70	S14	73
В	7	70	J7	71	S17	74
C12	Α	70	J12	71	S18	74
C13	В	70	J15	71	S19	74
C14	С	70	J22	72	T7	71
C25	Α	70	P21	73		
C26	В	70	P22	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D		
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3F		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4C	52	Doch Wire and I/D No. 4 (Instrument Danel Center)
4E	52	Dash Wire and J/B No.4 (Instrument Panel Center)
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)

: Connector Joining Wire Harness and Wire Harness

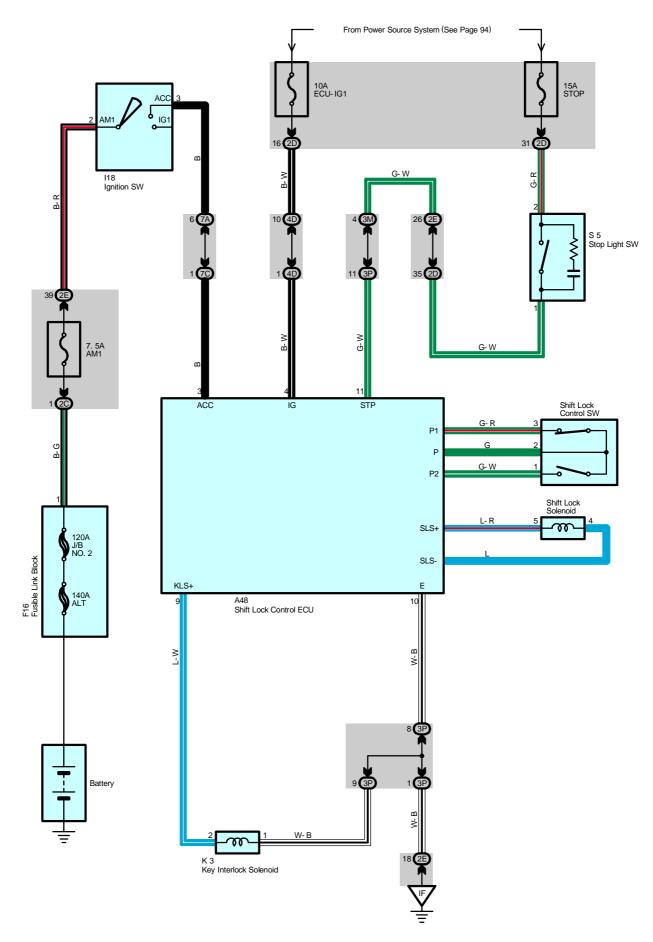
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EA1	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)			
EF1	76	Engine Room No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)			
IB1	78	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)			
IF1	70	leater most Docal lateration With and leater most Docal With /Left Cide of Leater most Docal)			
IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)			
114	80	Dash Wire and Column Wire (Near the Ignition SW)			
IT1	80	Engine Room No.2 Wire and Dash Wire (Right Kick Panel)			
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
la1	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
BM2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)			
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)			

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IH	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BM	86	Left Rear Side Quarter Panel

() : Sp

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire			



1. Shift Lock Mechanism

When the brake pedal is depressed with the ignition SW is turned on (Stop light SW on), the shift lock control ECU is activated and allows the driver to change the shift lever to a position other than P position.

2. Key Interlock Mechanism

When the ignition SW is turned on and the shift lever is at a position other than P position, shift lock control ECU is activated to flow current to the key interlock solenoid. This inhibits to turn the ignition SW from on to OFF position.

Service Hints

A48 Shift Lock Control ECU

3-Ground: Approx. 12 volts with ignition SW at ACC or ON position 4-Ground: Approx. 12 volts with ignition SW at ON or ST position

11-Ground: Approx. 12 volts with brake pedal depressed

10-Ground: Always continuity

: Parts Location

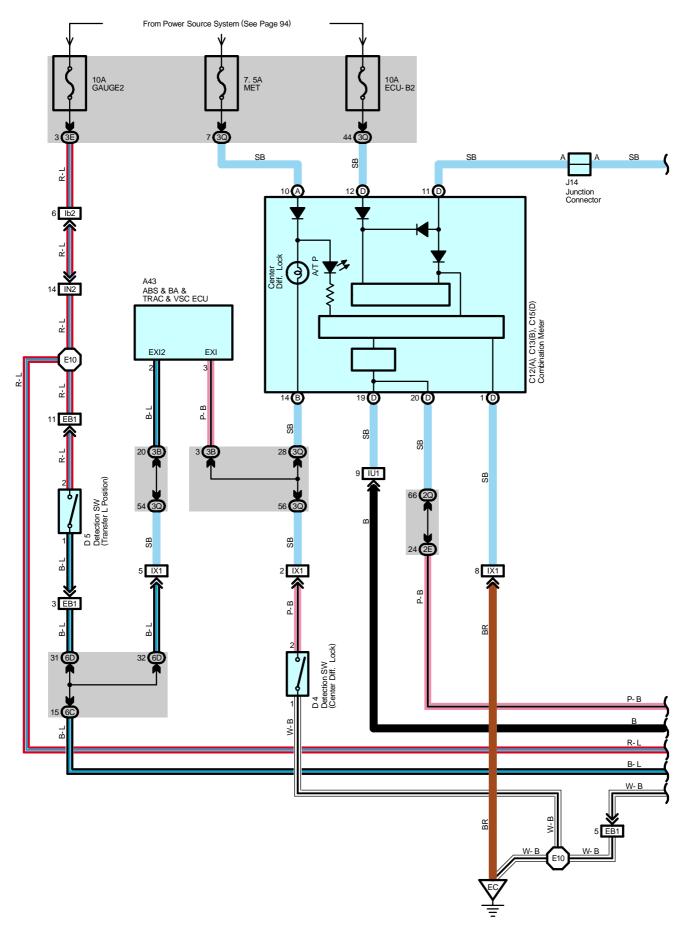
Code	See Page	Code	See Page	Code	See Page
A48	70	l18	70	S5	71
F16	68	К3	71		

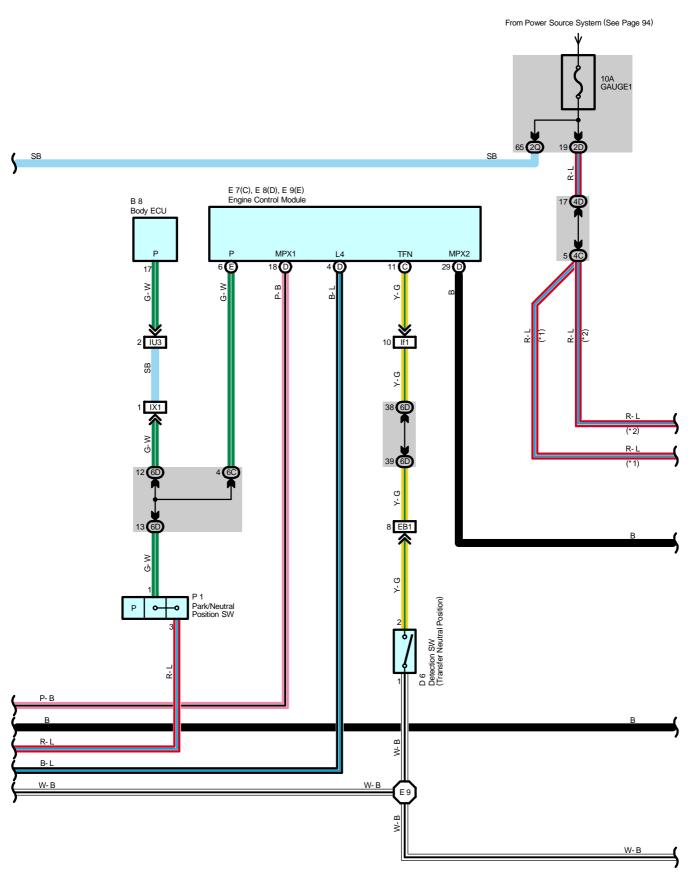
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2C		
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
3M	40	Doob Wine and Coud Cide UD DIT (Diable Kiel Doop)
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
7A	64	Doch Wire and I/D No 7 (Dehind the Clave Day)
7C	64	Dash Wire and J/B No.7 (Behind the Glove Box)

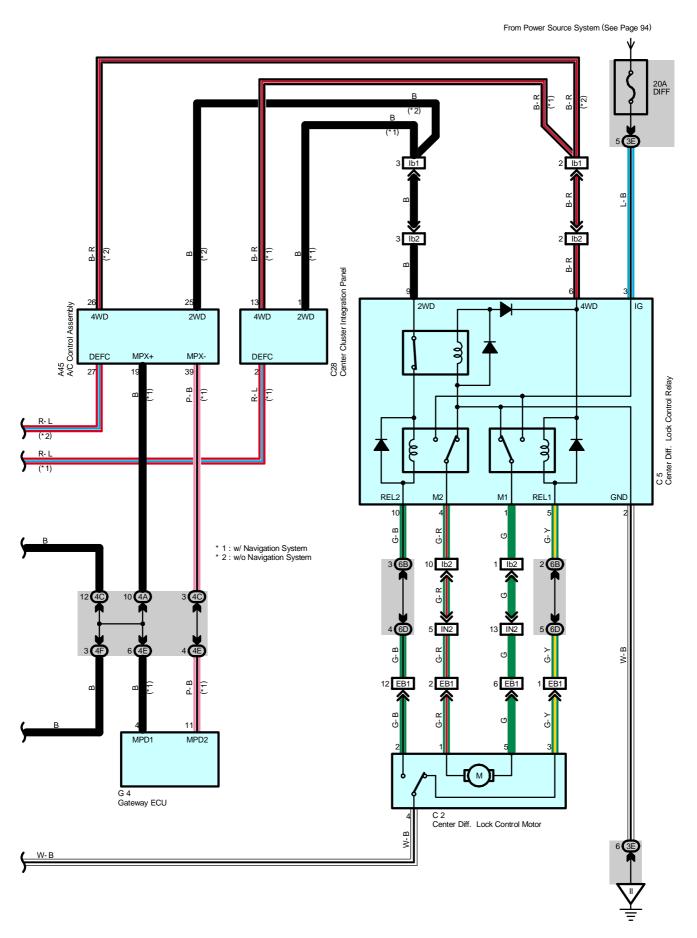
: Ground Points

Ī	Code	See Page	Ground Points Location
	IF	78	Set Bolt of Cowl Side J/B LH





^{* 1 :} w/ Navigation System * 2 : w/o Navigation System



Service Hints

C5 Center Diff. Lock Control Relay

3-Ground: Approx. 12 volts with ignition SW at ON or ST position

2-Ground: Always continuity

) : Parts Location

Co	Code See Page		Code		See Page	Co	de	See Page
A4	43	70	C13	В	70	E7	С	70
A4	45	70	C15	D	70	E8	D	70
В	B8 70		C2	28	70	E9	Е	70
С	2	68 D4 68 G4		4	70			
C5		70	D	5	68	J	14	71
C12 A 70		D	6	68	Р	1	69	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	00	Dook Wins and Coud Cide I/D LLI (Left Viels Done)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A		
4C		
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4E		
4F		
6B	60	Dook Wire and I/P No 6 (Pobind the Crayo Pay)
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)

: Connector Joining Wire Harness and Wire Harness

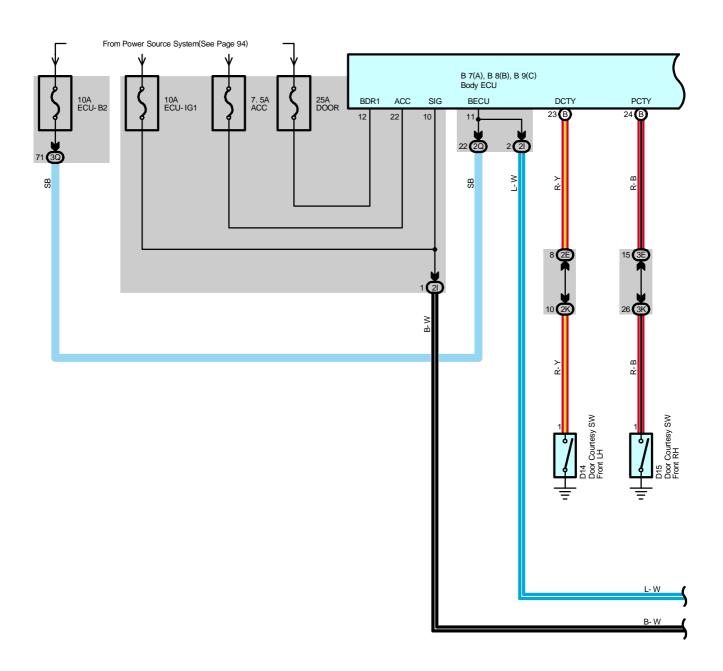
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EB1	76	Engine Wire and Transmission Wire (On the Transmission)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
IU1	00	Instrument Denel Integration Wire and Desh Wire (Dehind the Claus Day)			
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
lb1	0.4	Dook Wire and Dook Wire (Bakind the Combination Mater)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
lf1	84	Engine Wire and Engine Wire (Behind the Glove Box)			

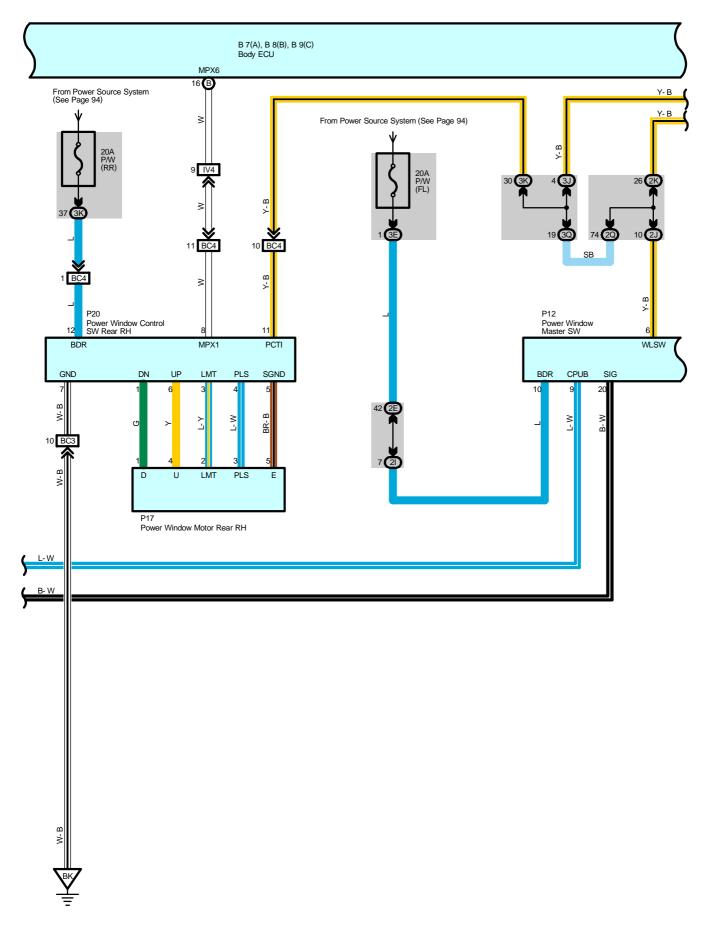
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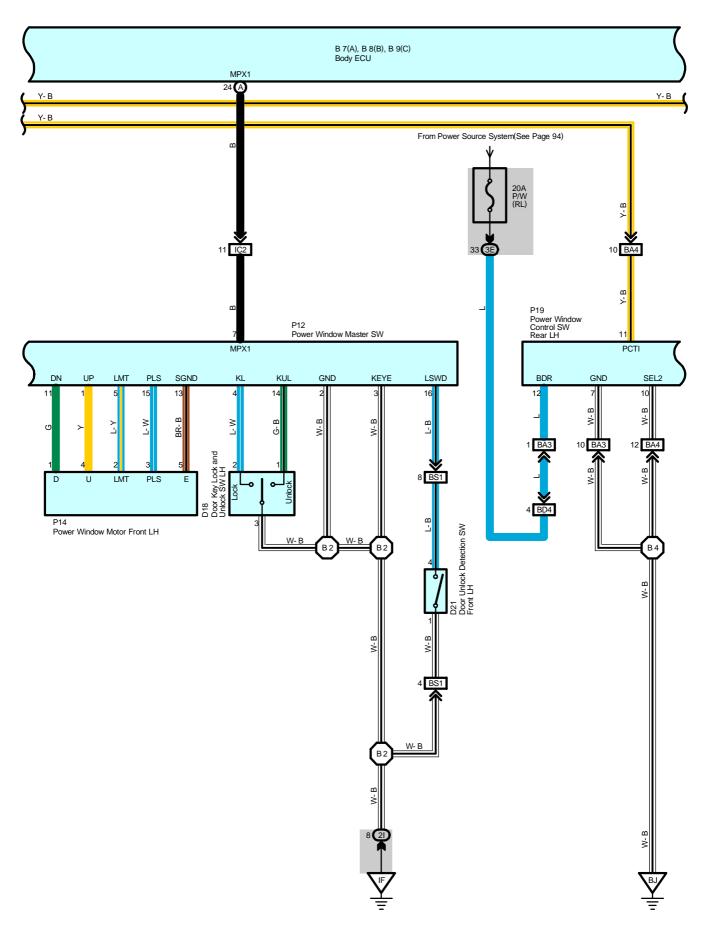
: Ground Points

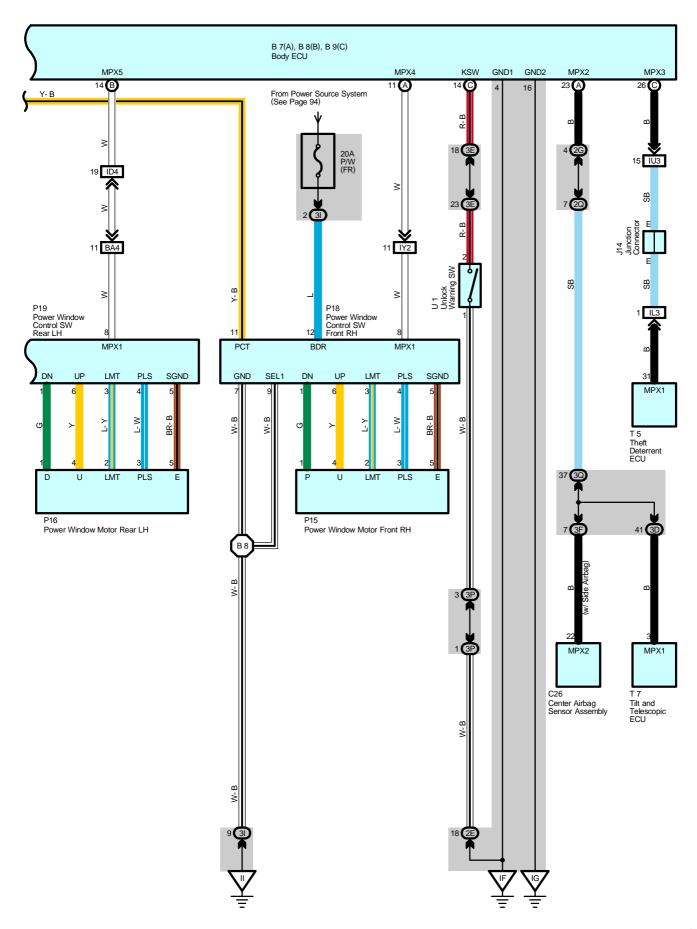
Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
П	78	Set Bolt of Cowl Side J/B RH

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E9	76	Transmission Wire	E10	76	Engine Wire









Power Window

System Outline

1. Manual Down or Up Operation

When the power window master SW is pressed one step, the current flows from the power window master SW TERMINAL DN to the power window motor front LH to the power window master SW TERMINAL UP to GROUND, and rotates the motor to open the window.

When the power window master SW is pulled one step, the current flows from the power window master SW TERMINAL UP to the power window motor front LH to the power window master SW TERMINAL DN to GROUND, and rotates the motor to close the window.

For the other windows, as the power window master SW and the power window SW is operated, the relevant door window is opened or closed.

2. Auto Down or Up Operation

When the power window master SW is pushed two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL DN to the power window motor front LH to the power window master SW TERMINAL UP to GROUND, and rotates the motor to open the window automatically.

When the power window master SW is pulled two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL UP to the power window motor front LH to the power window master SW TERMINAL DN to GROUND, and rotates the motor to close the window automatically.

Accordingly, when each window switch of the power window control SW is operated, the relevant door window is automatically opened/closed.

3. Catching Prevention Function

When any foreign matter is caught in the window during power window up operation, the pulse sensor in the power window motor detects the changes in the number of motor rotations and forcibly opens the door window 50 mm, or when the window opening is less than 200 mm, it opens the window until the opening is 200 mm.

4. Key Off Power Window Operation

It is possible to operate the power window for approx. 43 seconds after the ignition SW is turned from on to off. However, when the door is opened while the window is being operated, the power window operation is stopped even though 43 seconds have not elapsed.

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page
B7	Α	70	D21	72	P18	73
B8	В	70	J14	71	P19	73
В9	С	70	P12	73	P20	73
C26		70	P14	73	T5	71
D.	14	72	P15	73	T7	71
D.	15	72	P16	73	U1	71
D.	18	72	P17	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2G	20	Dasif Wile and Cowi Side 3/B LH (Left Nick Pariet)			
21	20	Front Description and Octob (D1117) (107) (D2117)			
2J	- 28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D					
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3F					
31	40	Front Door BLI Wire and Coul Cide I/D BII / Bight Kiek Bonel			
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

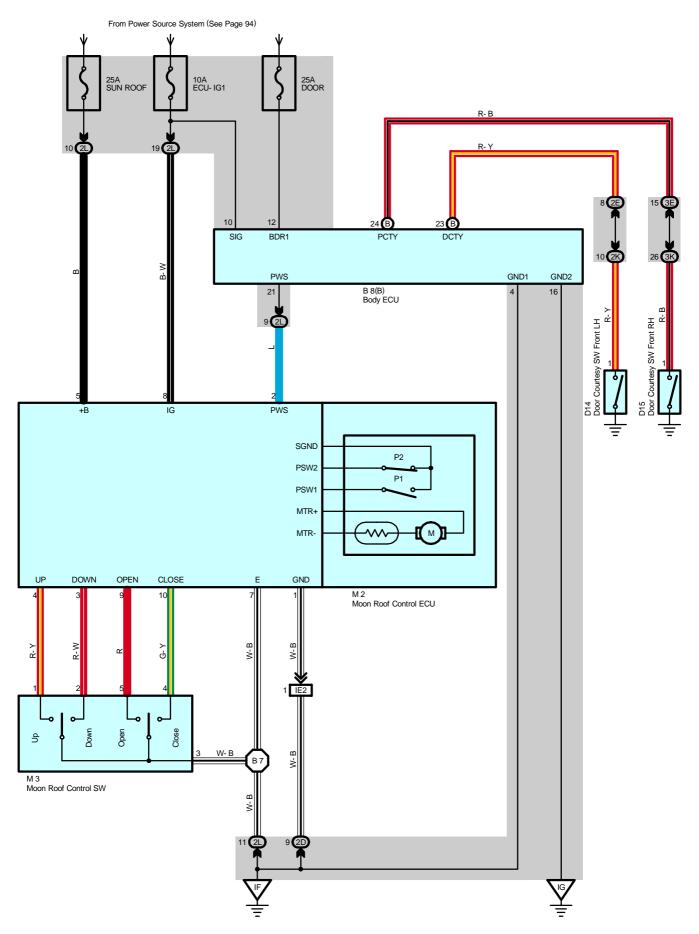
: Connector Joining Wire Harness and Wire Harness

Code See Page		Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
BA3	00	Down I I I Mire and Floor No 4 Mire // of Cide of Contan Biller
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BC3	00	Door Door Dill Wire and Floor No C Wire (Dinkt Cide of Contar Billon)
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)

: Ground Points

Code	See Page	Ground Points Location	
IF	70	Set Bolt of Cowl Side J/B LH	
IG	- 78	Set Bolt of Cowl Side 3/B Lm	
II	78	Set Bolt of Cowl Side J/B RH	
BJ	86	Under the Driver's Seat	
BK	86	Front Side Under the Front Passenger's Seat	

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B4	88	Floor No.1 Wire			



In this system, the HALL IC in the moon roof control ECU detects the changes in motor rotation, and allows opening/closing, tilting up/down of the moon roof by one touch operation.

In addition, catching prevention function during moon roof operation is also provided.

Voltage is constantly applied from the SUN ROOF fuse to the moon roof control ECU TERMINAL 5 of the moon roof control ECU.

When the ignition SW is turned on, the current flows from the ECU-IG1 fuse to TERMINAL 8 of the moon roof control ECU.

1. Slide Open Operation

When the moon roof control SW is kept pressed to OPEN position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 5 to the moon roof control ECU TERMINAL 9. This activates the moon roof control ECU and rotates the motor to open the moon roof automatically. However, in case of pressing the moon roof control SW for 0.3 seconds or less, the moon roof can be operated manually. Then, when the limit SW No.1 is turned on and then turned off again, the pulse signal sent from the HALL IC activates the moon roof control ECU, and determines that the moon roof is fully open, and stops the motor. If other operation SW or the open SW is operated while the moon roof is being opened, the moon roof control ECU is activated to stop the moon roof operation. In addition, when the moon roof is tilted up, the slide open operation does not function.

2. Slide Close Operation

When the moon roof control SW is kept pressed to CLOSE position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 off), a signal is input from the moon roof control SW TERMINAL 4 to the moon roof control ECU TERMINAL 10. This activates the moon roof control ECU and rotates the motor to close the moon roof automatically. However, in case of pressing the moon roof control SW for 0.3 seconds or less, the moon roof can be operated manually. Then, when the limit SW No.2 is turned on, the pulse signal sent from the HALL IC activates the moon roof control ECU, and determines that the moon roof is closed fully, and stops the motor. If other operation SW or the close SW is operated while the moon roof is being closed, the moon roof control ECU is activated to stop the moon roof operation.

3. Tilt Up Operation

When the moon roof control SW is kept pressed to UP position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 1 to the moon roof control ECU TERMINAL 4. This activates the moon roof control ECU and rotates the motor to tilt up the moon roof automatically. If the pulse signal is not input from the HALL IC for 0.5 seconds or longer, it determines that the moon roof is fully tilted up, and stops the motor. If other operation SW or the tilt up SW is operated while the moon roof is being tilted up, the moon roof control ECU is activated to stop the moon roof operation. In addition, when the moon roof is opened, the tilt up operation does not function.

4. Tilt Down Operation

When the moon roof control SW is kept pressed to DOWN position for approx. 0.3 seconds or longer (Limit SW No.1 on, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 2 to the moon roof control ECU TERMINAL 3. This activates the moon roof control ECU and rotates the motor to tilt down the moon roof automatically.

Then, when the limit SW No.1 is turned off, the pulse signal sent from the HALL IC activated the moon roof control ECU, and determines that the moon roof is closed fully, and stops the motor.

If other operation SW or the tilt down SW is operated while the moon roof is being tilted down, the moon roof control ECU is activated to stop the moon roof operation.

5. Catching Prevention Function

During slide close or tilt down operation, if the moon roof control ECU detects a catching load from the changes in the rotation of the motor, the operation is stopped, and the motor is rotated in the reverse direction.

Slide close operation

The moon roof is moved approx. 200 mm in the reverse direction (Slide open) after a catching load has been detected. However, if the full open position is detected before moving approx. 200 mm, the reverse movement is stopped.

* Tilt down operation

If a catching load is detected, the moon roof is moved in the reverse direction until fully tilted up.

6. Key Off Moon Roof Operation

Within approx. 43 seconds after the ignition SW is turned from on to off, the moon roof can be operated. However, if the driver or front passenger door is opened during this period of time, the moon roof operation is stopped even though 43 seconds have not elapsed.

7. Fail-Safe Function

If the moon roof is operated continuously in the same direction, the current flowing to the motor is cut off when the time shown below has elapsed after the motor operation has been started.

- * Slide open/close operation by the moon roof SW approx. 20 seconds
- * Tilt up/down operation by the moon roof SW approx. 2 second
- * Slide open operation for reverse movement in case of catching prevention function approx. 20 seconds
- * Tilt up operation for reverse movement in case of catching prevention function approx. 2 seconds

Moon Roof

: Parts Location

C	ode	See Page	Code	See Page	Code	See Page
B8	В	70	D15	72	M3	72
1	D14	72	M2	72		

0

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)		
2D	20	Dook Wire and Coul Cide I/D III (Left Kick Bone)		
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)		
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)		
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)		

: Connector Joining Wire Harness and Wire Harness

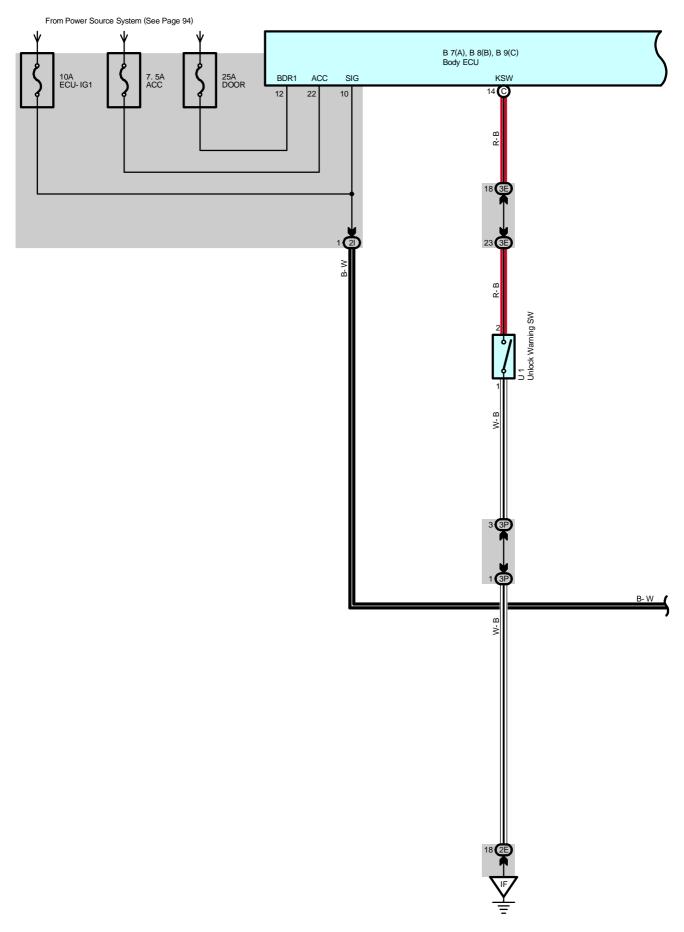
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE2	78	Dash Wire and Roof No.1 Wire (Left Kick Panel)

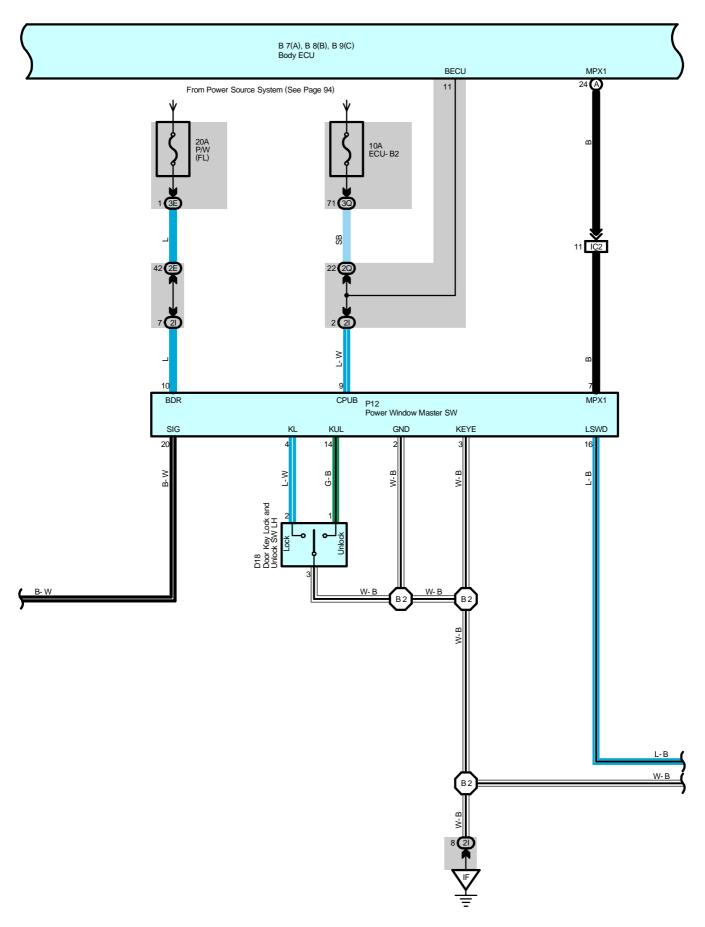
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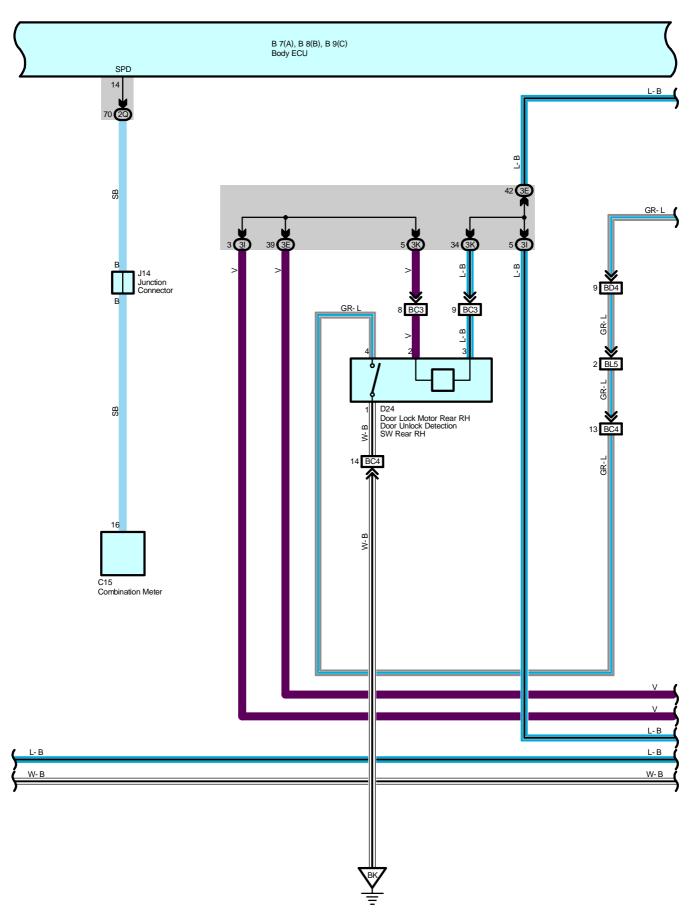
: Ground Points

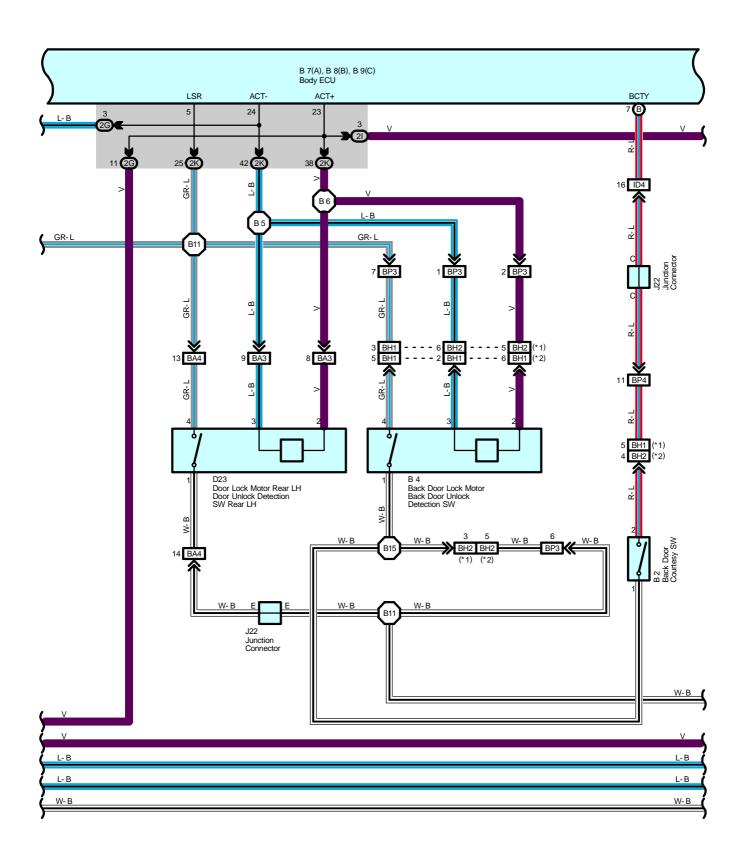
Code	See Page	Ground Points Location
IF	70	Cart Dalt of Court Cide 1/D 111
IG	78	Set Bolt of Cowl Side J/B LH

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	ĺ
B7	88	Roof No.1 Wire				ĺ

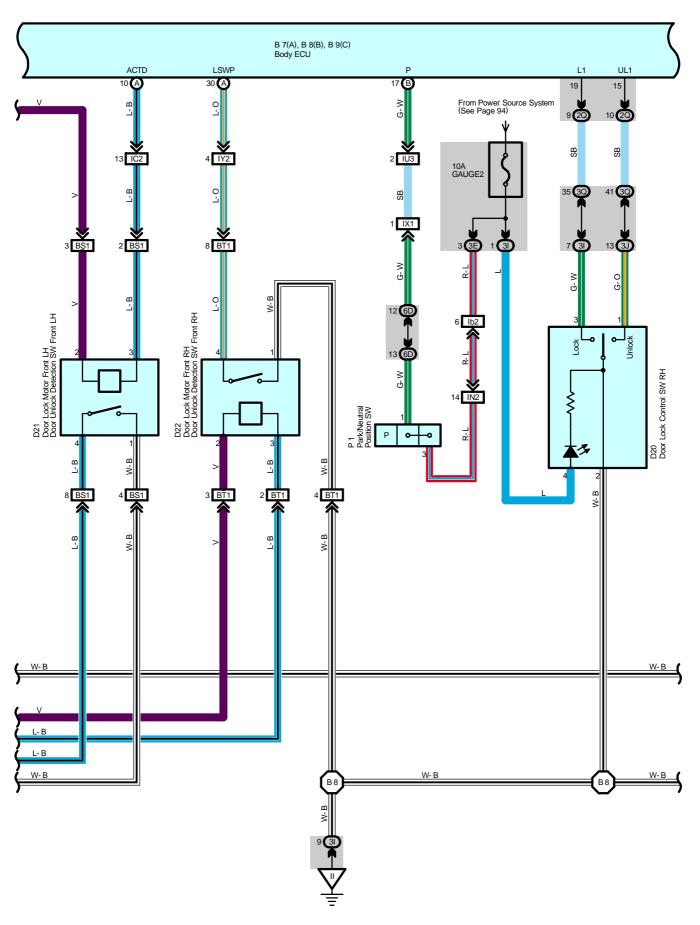


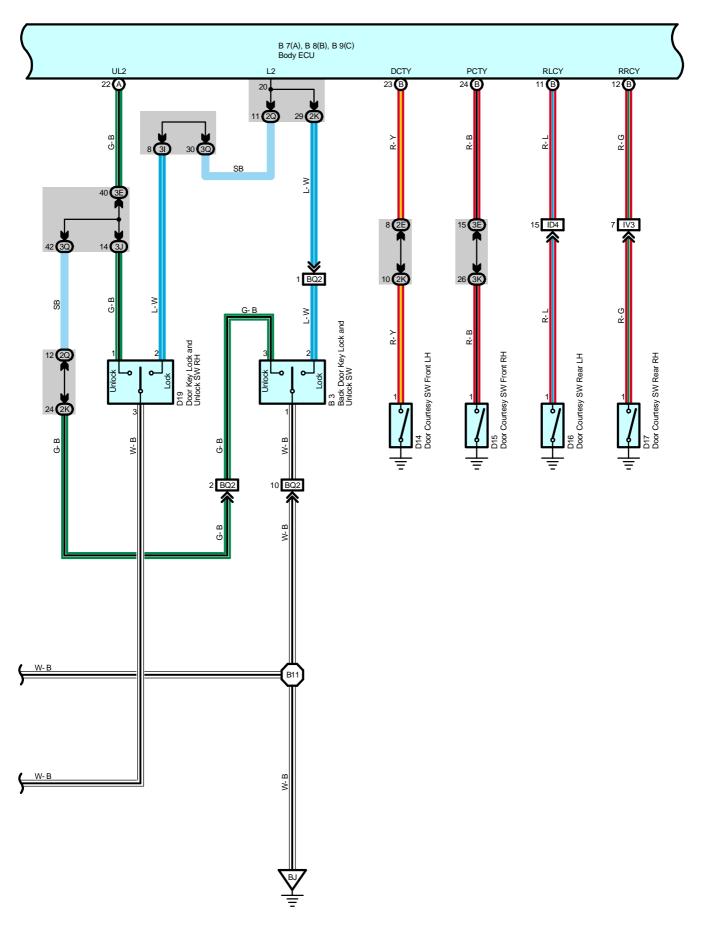


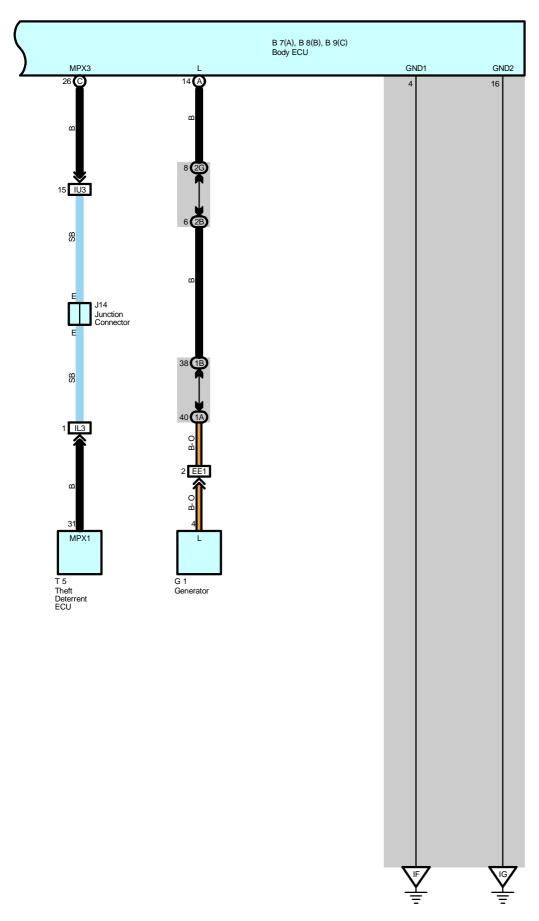




* 1 : w/ Navigation System * 2 : w/o Navigation System







System Outline

The door lock control system is controlled by the body ECU.

This system has following features. However, the adopted function differs depending on the establishment.

1. Manual Lock and Unlock Operation

Pressing the power door lock switch on the driver or front passenger door to the lock side will lock all the doors and pressing it to the unlock side will unlock all the doors.

2. Key-Linked Lock and Unlock Function

This function, which is linked with the key cylinder, can lock or unlock all the doors when a lock or unlock operation is effected.

3. Manual Unlock Prohibition Function

Performing the door lock operation with a transmitter or an ignition key will prohibit the unlock operation by the door lock control switch.

4. 2-Step Unlock Function

This function is provided to unlock the driver's door by turning the key cylinder first and unlock passenger's door by turning it the second time.

5. Key Confine Prevention Function

When the key is inserted in the ignition key cylinder and if you perform the door lock operation, all the doors will be unlocked.

6. Shift-Linked Automatic Door Lock

When the conditions listed below are met consecutively, this function causes all the doors to be automatically locked.

- * The ignition switch is turned from the OFF or ACC position to the ON position.
- * All doors are closed.
- * The shift lever is moved out of P position.
- * Either one of the doors is unlocked.

7. Theft Deterrent System-Linked Door Lock Function

When the body ECU receives the door lock signal from the theft deterrent system, "all doors lock" operation will be performed in spite of the current door lock condition.

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page
В	2	72	D16	72	G1	68
В	3	72	D17	72	J14	71
В	4	72	D18	72	J22	72
B7	Α	70	D19	72	P1	69
B8	В	70	D20	72	P12	73
В9	С	70	D21	72	T5	71
C	15	70	D22	72	U1	71
D	14	72	D23	72		
D	15	72	D24	72		

Door Lock Control

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	20	Dook Wire and Coul Side I/D LLI (Left Viels Banel)			
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
31	40	Front Door DLI Wire and Coud Side I/D DLI /Dight Viel Done)			
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)			
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
BA3	00	Dear Dear LLIMing and Floor No. 4 Ming // off Cide of Contan Billion			
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)			
BC3	00	Deer Deer DI I Wire and Floor No O Wire (Binht Cide of Contex Billon)			
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BH1	00	Dillow No. 4 Miles and Dook Doord Innov Miles (Left Cide of Dook Door)			
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BP3	00	Dillow No. 4 Miles and Floor No. 4 Miles // off Door Cide Overton Door)			
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)			
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)			

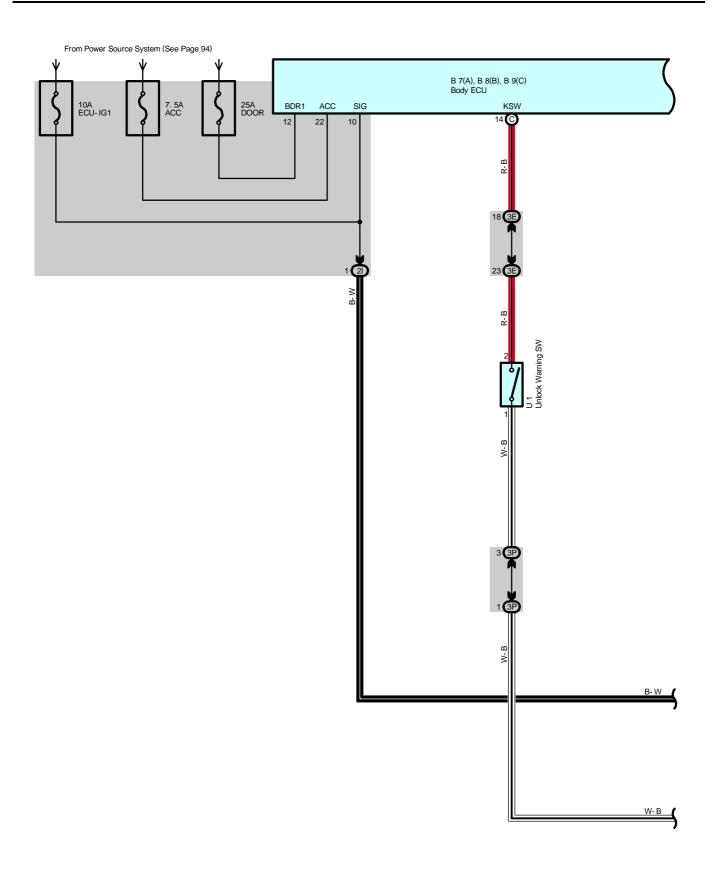
: Ground Points

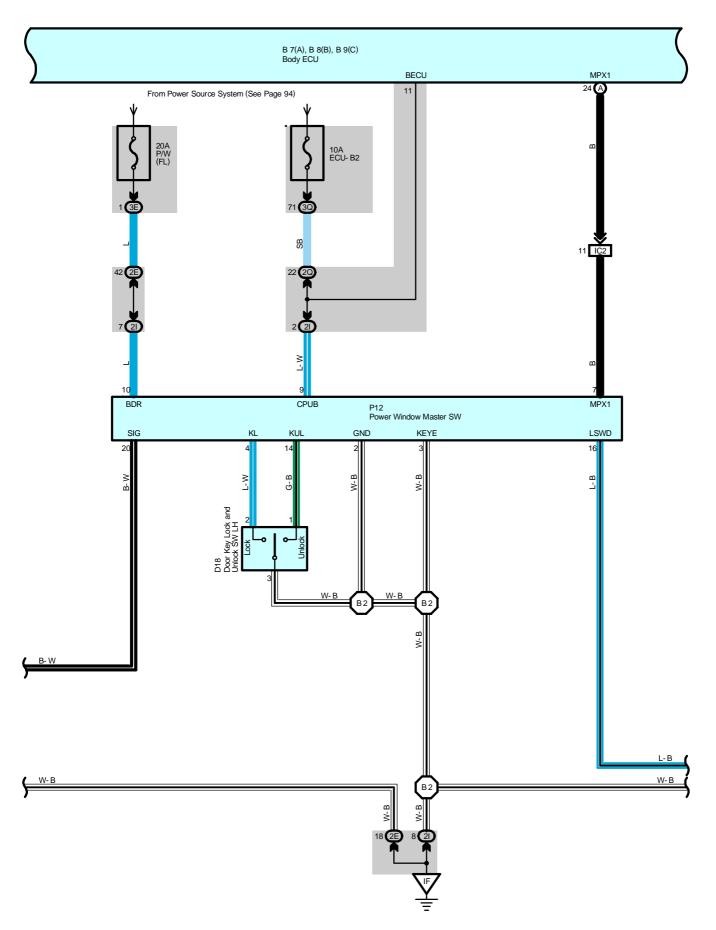
Code	See Page	Ground Points Location
IF	70	Set Bolt of Cowl Side J/B LH
IG	78	Set boit of Cowi Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

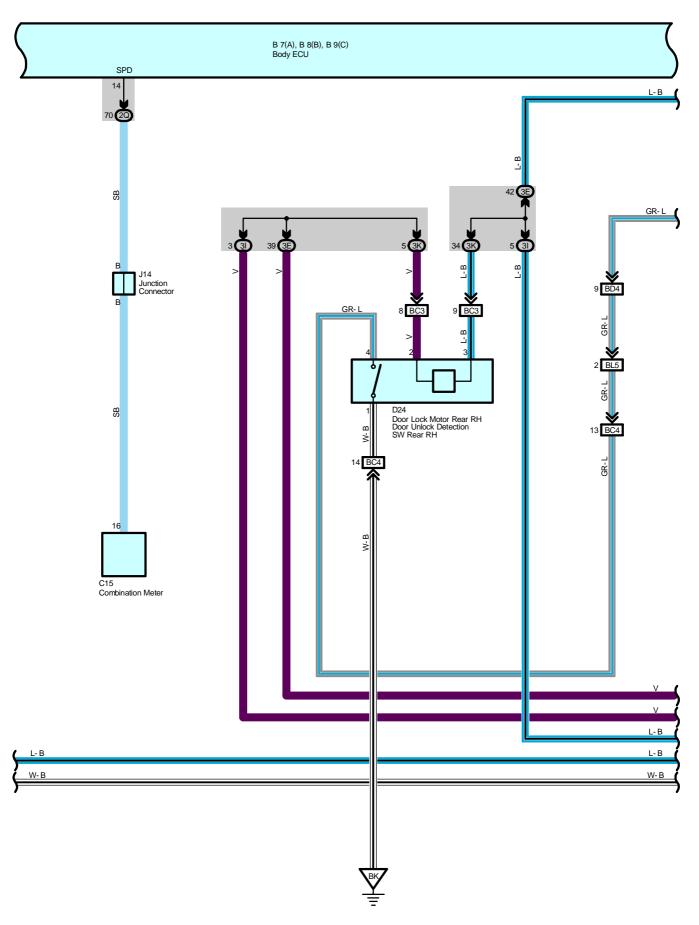


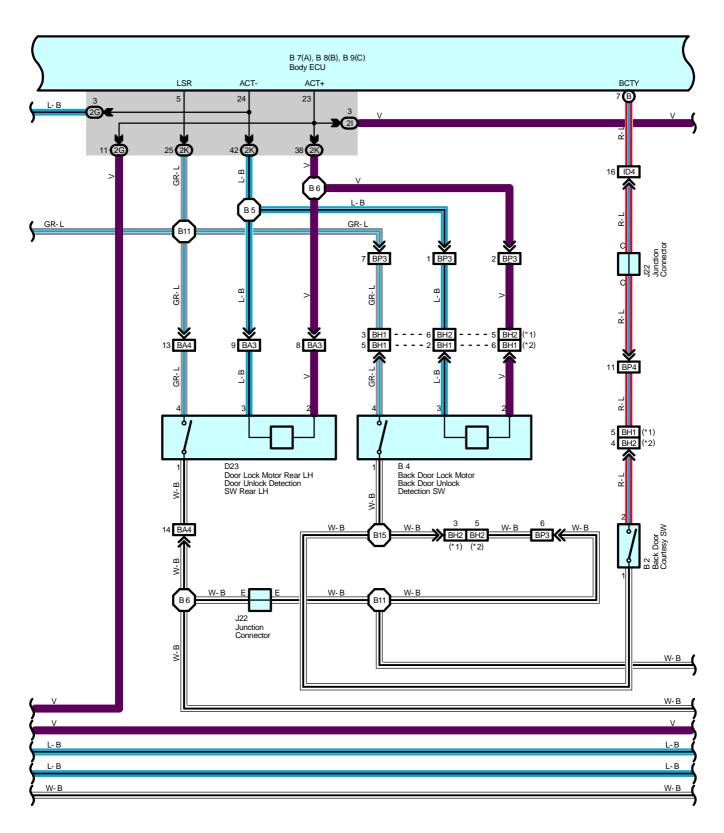
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B5	B5 B6 88	Floor No.1 Wire	B11	88	Floor No.1 Wire
B6			B15	88	Back Door Upper Wire

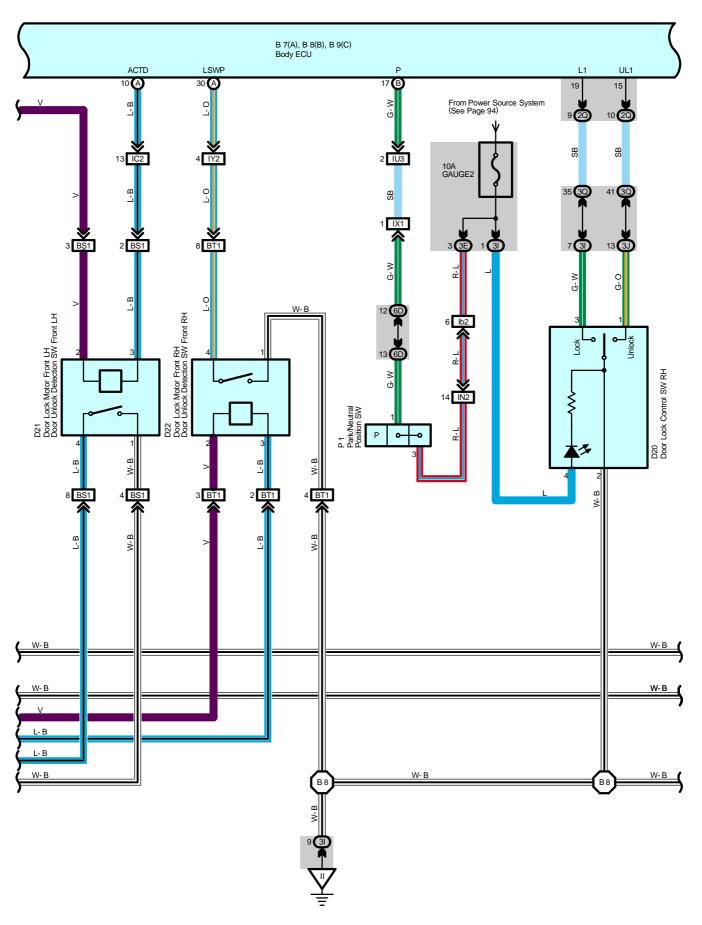


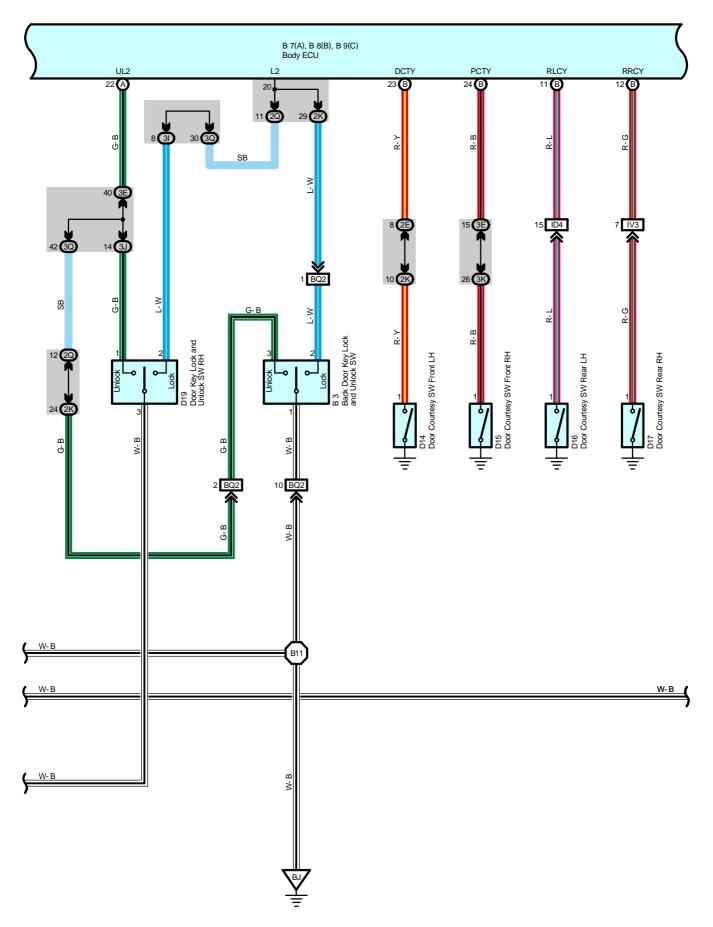


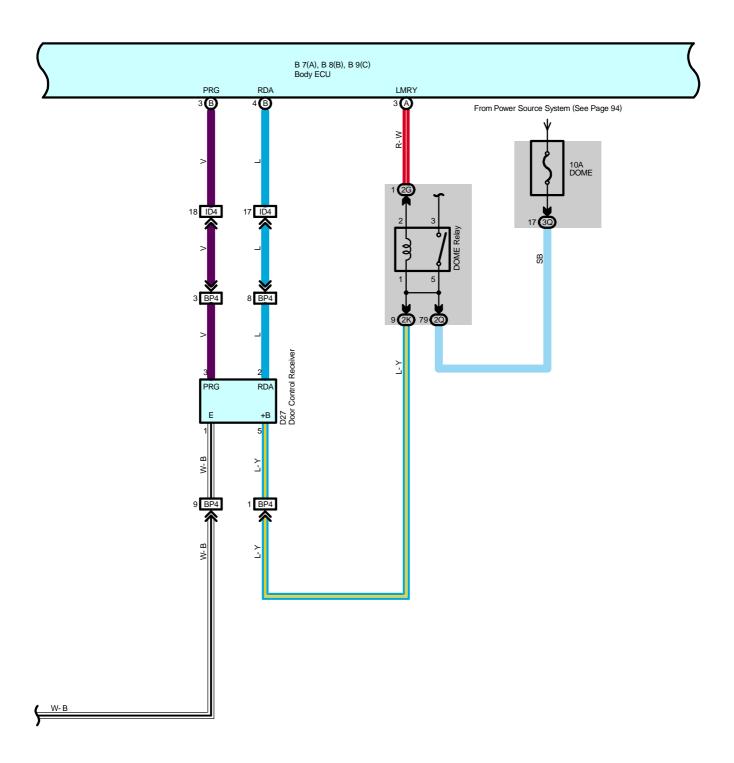


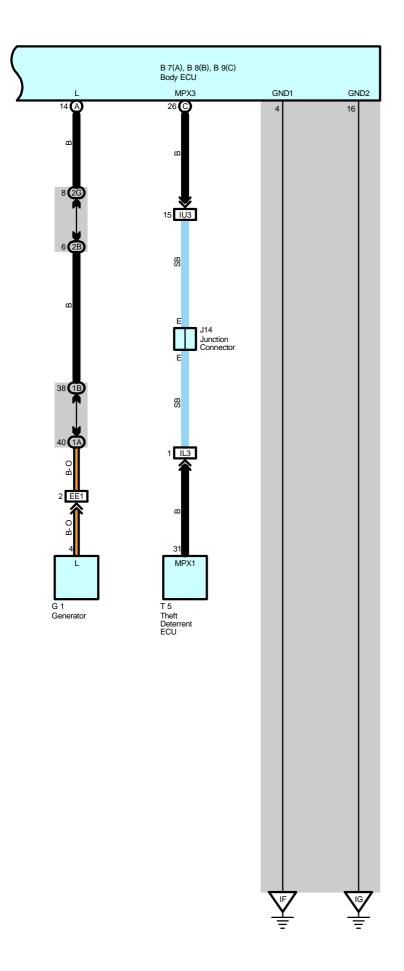


* 1 : w/ Navigation System * 2 : w/o Navigation System









Wireless Door Lock Control

System Outline

In this system, the door control receiver receivers weak radio wave transmitted from the transmitter built-into the ignition key, and outputs a signal to the body ECU. Accordingly, all the doors are can be locked and unlocked by remote control.

1. Normal Operation

* Lock operation

When the lock SW on the transmitter is pressed, all the doors are locked.

* Unlock operation

When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within 3 seconds, all the doors are unlocked.

2. Auto Lock Function

When the door is not actually opened within 30 seconds after the door has been unlocked by the unlock SW on the transmitter, all the doors are automatically locked. If any of the following conditions are detected, the wireless door lock does not function.

- * Any door is opened.
- * The ignition key is inserted into the ignition SW.
- * When the unlock detection SW of all the doors are locked.

3. Wireless Door Lock Stop Function

If any of the following conditions are detected, the wireless door lock does not function.

Lock operation

- * When any door is open (Door courtesy SW on)
- * The ignition key is inserted into the ignition SW (Unlock warning SW on)
- * Ignition SW is on

Unlock operation

* Ignition SW is on

4. Visual Confirmation of Lock or Unlock

During lock operation, when the door control receiver receives a lock signal from the door unlock detection SW, the turn signal light is flashed once. During unlock operation, when the door control receiver receives an unlock signal from the door unlock detection SW, the turn signal light is flashed twice.

5. Panic Mode Function

When the panic SW on the transmitter is pressed, the door control receiver receives a signal and enters the panic mode. The signal input into the theft deterrent ECU from the body ECU turns on the theft deterrent horn, and flashes the taillight and headlight. When the panic SW or the unlock SW of the transmitter is pressed during the panic mode, the panic mode is canceled, and the theft deterrent horn stops, and the taillight and headlight are turned off.

6. Repeat Function

If the lock detection signal in response to the output signal is not received after the door control receiver has output the lock signal, the lock signal is output again.

Service Hints

D27 Door Control Receiver

5-Ground: Always approx. 12 volts 1-Ground: Always continuity

D21, D22, D23, D24 Door Unlock Detection SW Front LH, RH, Rear LH, RH

1-Ground: Always continuity

B4 Back Door Unlock Detection SW

1-Ground: Always continuity

O : Parts Location

Co	de	See Page	Code	See Page	Code	See Page
В	2	72	D16	72	D27	72
В	3	72	D17	72	G1	68
В	4	72	D18	72	J14	71
B7	Α	70	D19	72	J22	72
B8	В	70	D20	72	P1	69
B9	C	70	D21	72	P12	73
C.	15	70	D22	72	T5	71
D14		72	D23	72	U1	71
D.	15	72	D24	72		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
		, ,			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	00	Dook Wire and Coul Cide I/D I I / of Viel Dane)			
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
31	40	Front Door BUIMEro and Could Cide 1/D BUI/Birks (Cide Door)			
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)			

Wireless Door Lock Control

: Connector Joining Wire Harness and Wire Harness

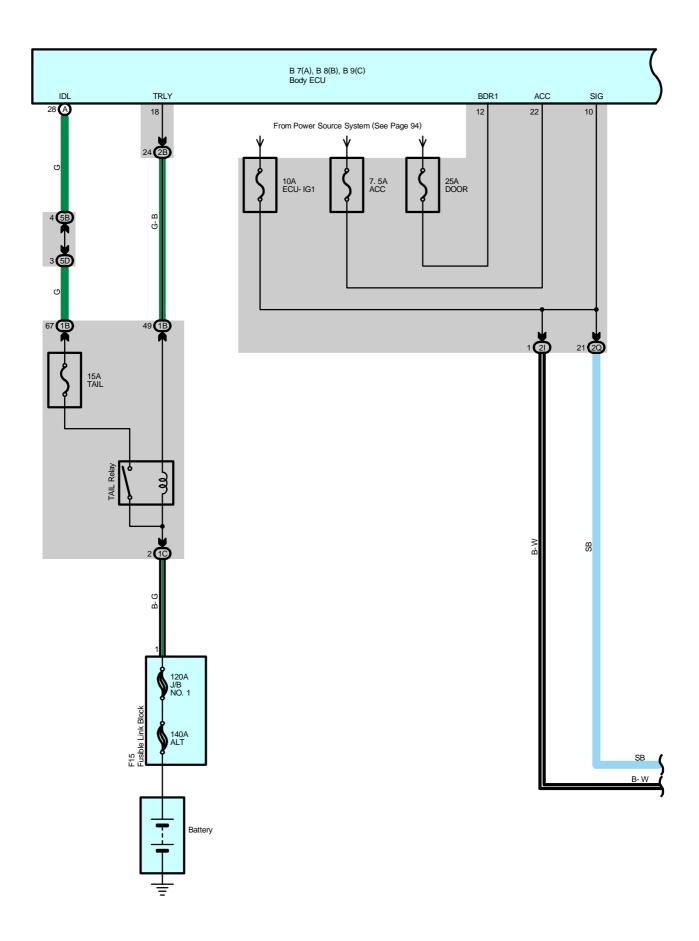
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)			
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
BA3	- 86	Pear Dear LH Wire and Floor No. 1 Wire /Left Side of Contar Biller			
BA4	00	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)			
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			
BC4	00	Real Door RH Wile and Floor No.2 Wire (Right Side of Center Pillar)			
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BH1	- 86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BH2	00	Filial No.1 Wile and Back Door Opper Wile (Left Side of Back Door)			
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BP3	- 88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BP4	00	Tilial 190.1 Wile and Floor 190.1 Wile (Left Neal Side Qualter Faller)			
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)			
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)			

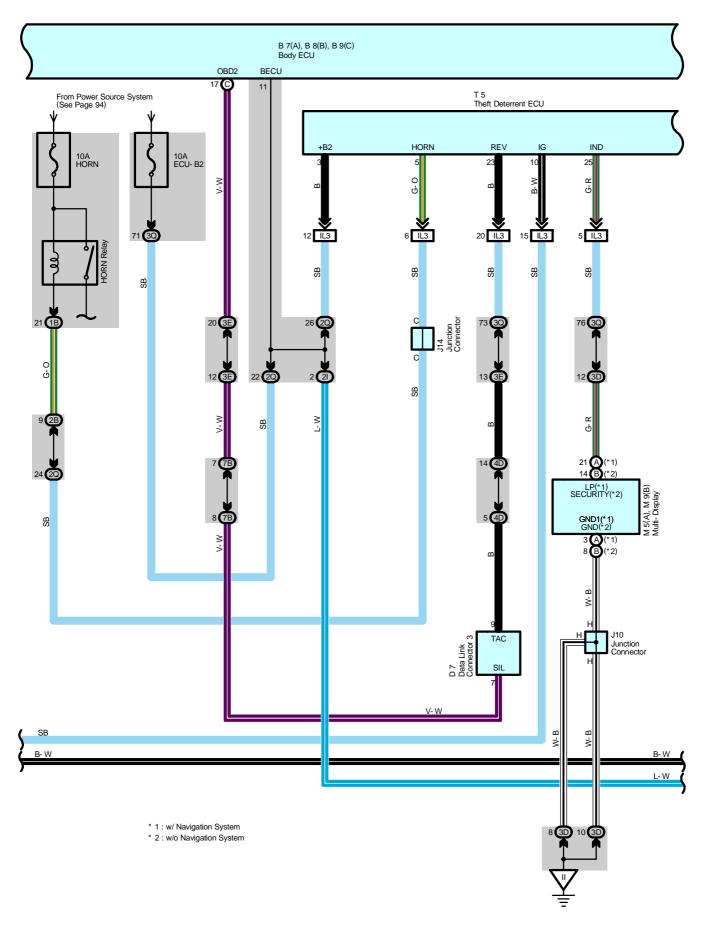
: Ground Points

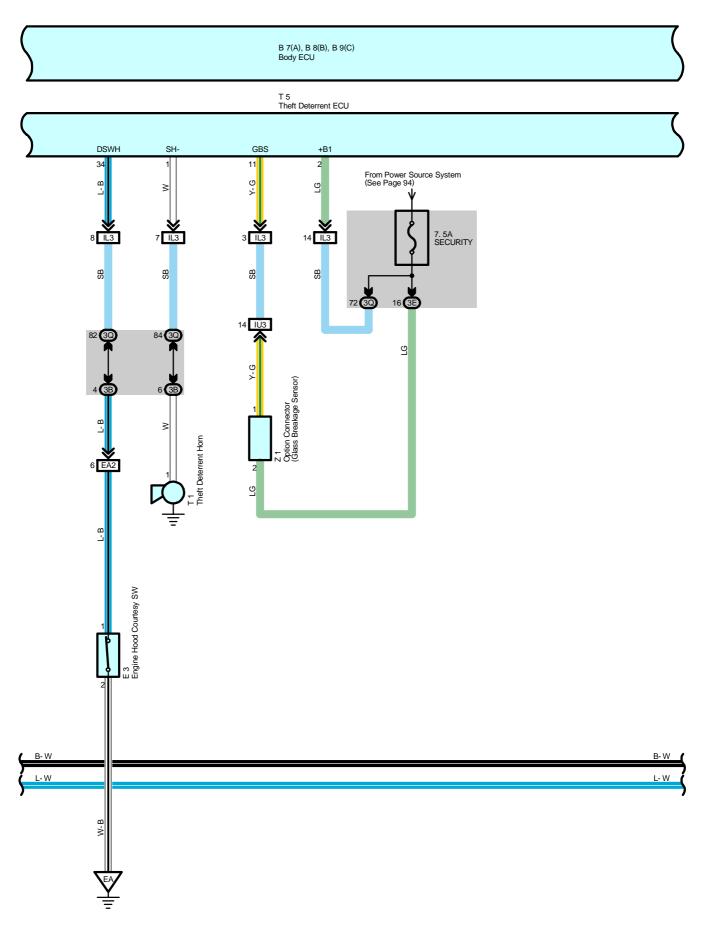
Code	See Page	Ground Points Location
IF	70	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

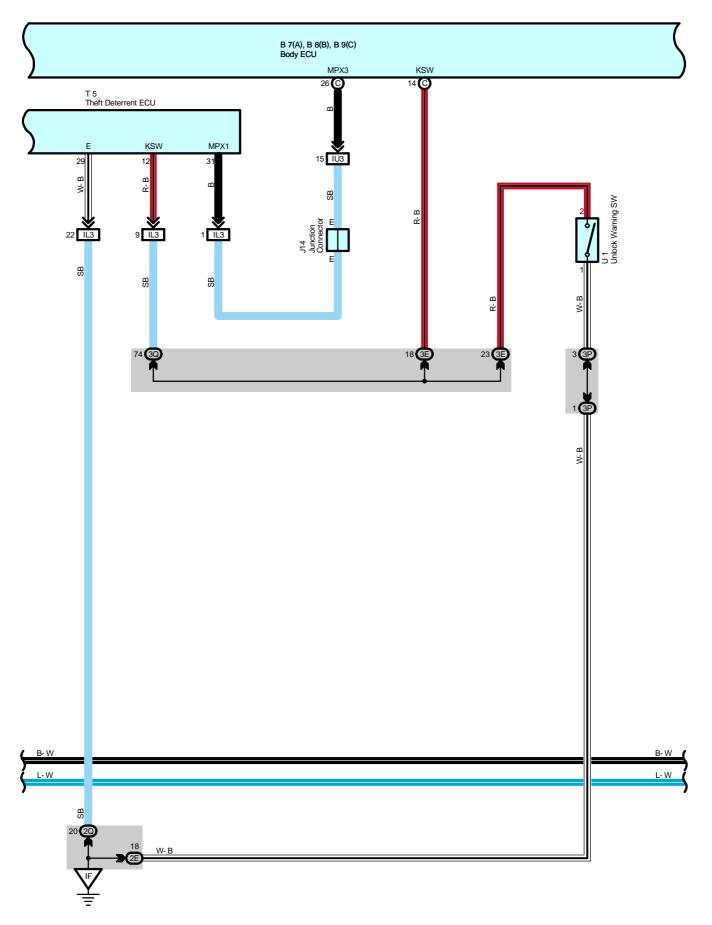
: Splice Points

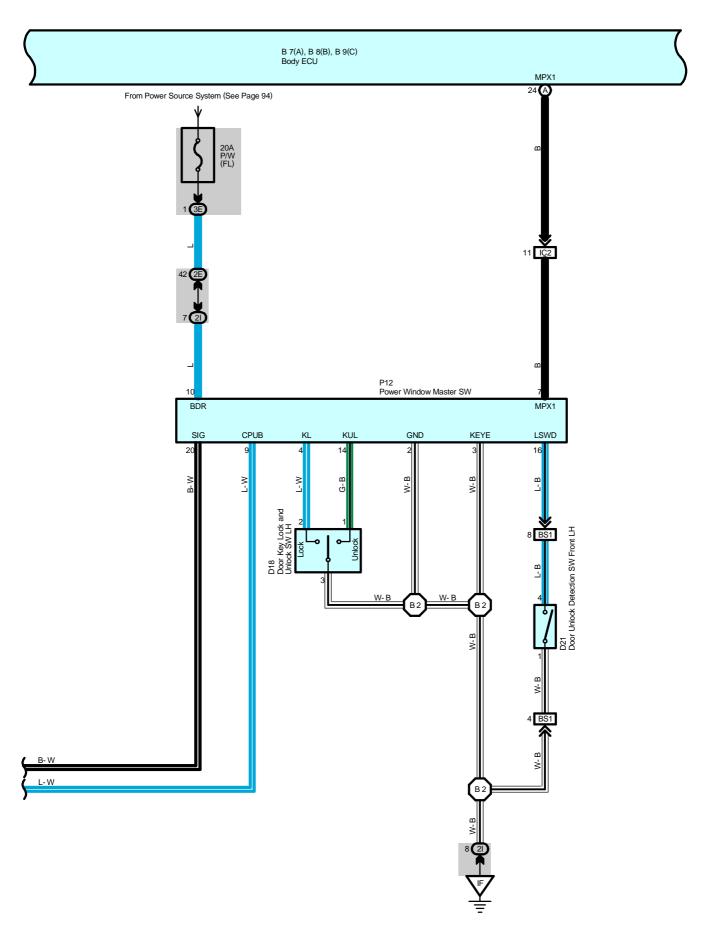
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B5	00	Floor No 4 Wire	B11	88	Floor No.1 Wire
В6	88	Floor No.1 Wire	B15	88	Back Door Upper Wire

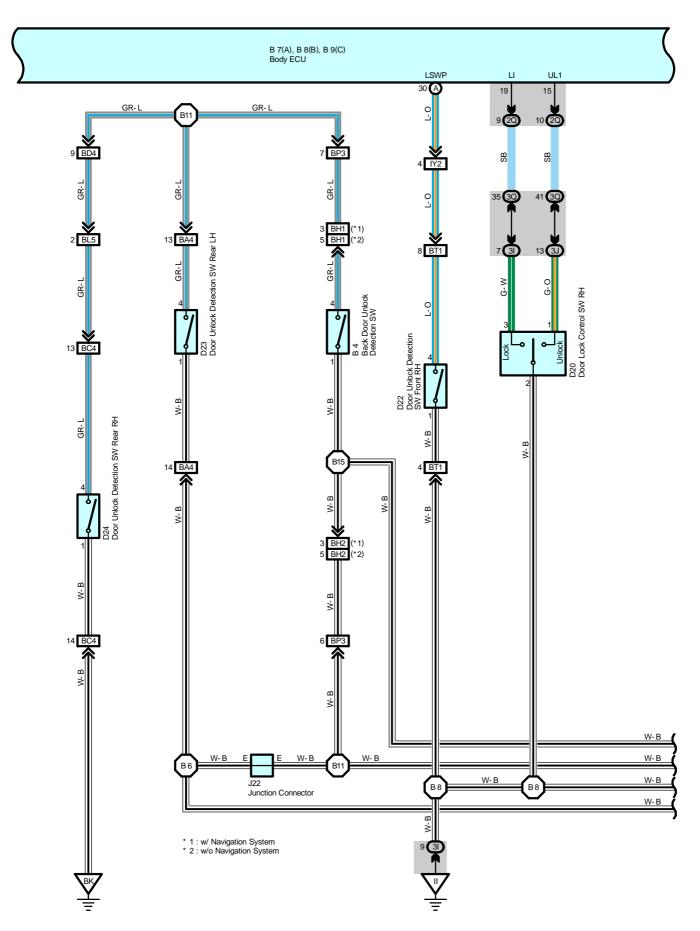


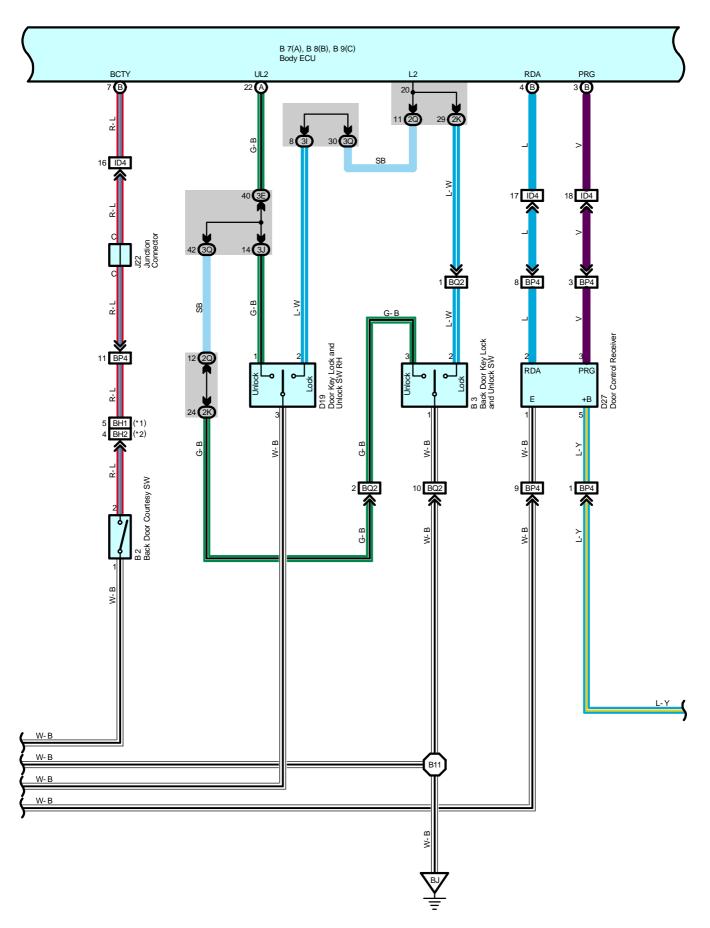


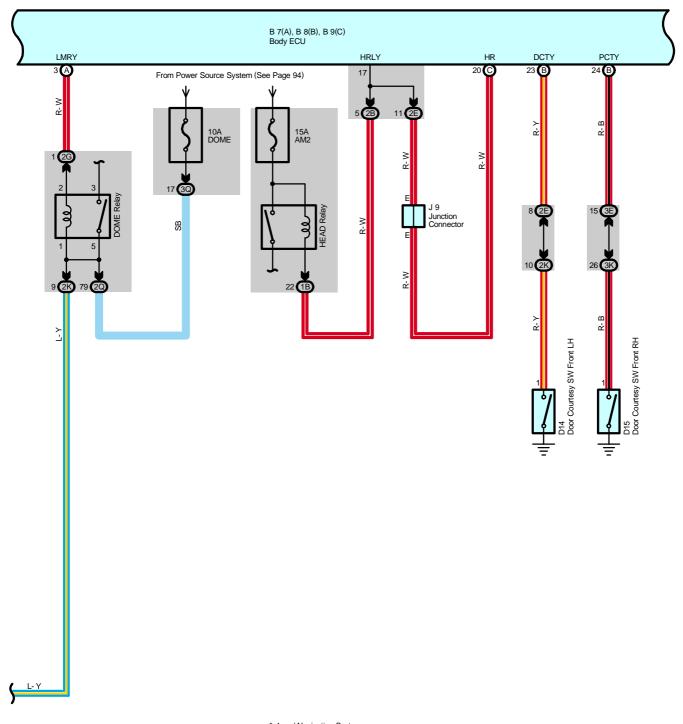




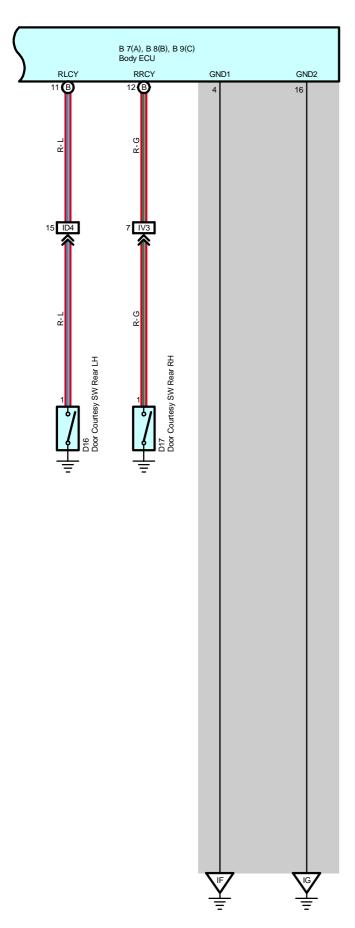








* 1 : w/ Navigation System * 2 : w/o Navigation System



Service Hints

D18, D19 Door Key Lock and Unlock SW LH, RH

1-3 : Closed with door lock cylinder unlocked with key2-3 : Closed with door lock cylinder locked with key

B3 Back Door Key Lock and Unlock SW

3-1 : Closed with door lock cylinder unlocked with key2-1 : Closed with door lock cylinder locked with key

E3 Engine Hood Courtesy SW

1-2 : Opened with engine hood open

U1 Unlock Warning SW

2-1 : Closed with ignition key in cylinder

T5 Theft Deterrent ECU

2, 3-Ground: Always approx. 12 volts

10-Ground: Approx. 12 volts with ignition SW at ON or ST position

29-Ground: Always continuity

12-Ground: Continuity with ignition key in cylinder 34-Ground: Continuity with engine hood close

: Parts Location

Co	ode	See Page	Code	See Page	Code		See Page
В	32	72	D18	72	J1	0	71
В	33	72	D19	72	J14		71
В	34	72	D20	72	J2	22	72
B7	Α	70	D21	72	M5	Α	71
B8	В	70	D22	72	M9	В	71
В9	С	70	D23	72	P'	12	73
С	7	70	D24	72	T1		69
D	D14 72 D27 72		T5		71		
D	15	72	E3	68	U1		71
D	16	72	F15	68	Z	1	71
D	17	72	J9	71			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	04	Fraire Deer No C.Wire and Fraire Deer UD (Fraire Compartment Left)
1C	1C 24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	- 28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G	20	Dash Wile and Cowi Side 3/6 LH (Left Nick Pariet)
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3D	40	Dook Wire and Coud Side I/R RI I / Right Kiels Ranel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
31	40	Front Door BILLWise and Could Cide I/D BILL/Birtht I/int. Door!
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)

Theft Deterrent

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)			
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)			
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)			
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BH1	- 86	Dillar No. 4 William and Dools Doors Hanney William (Latt Cida of Dools Doors)			
BH2	80	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BP3	00	Dillocable A Millocated Floor ble A Milloc (Lett Book Cide Occarios Book)			
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)			
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)			

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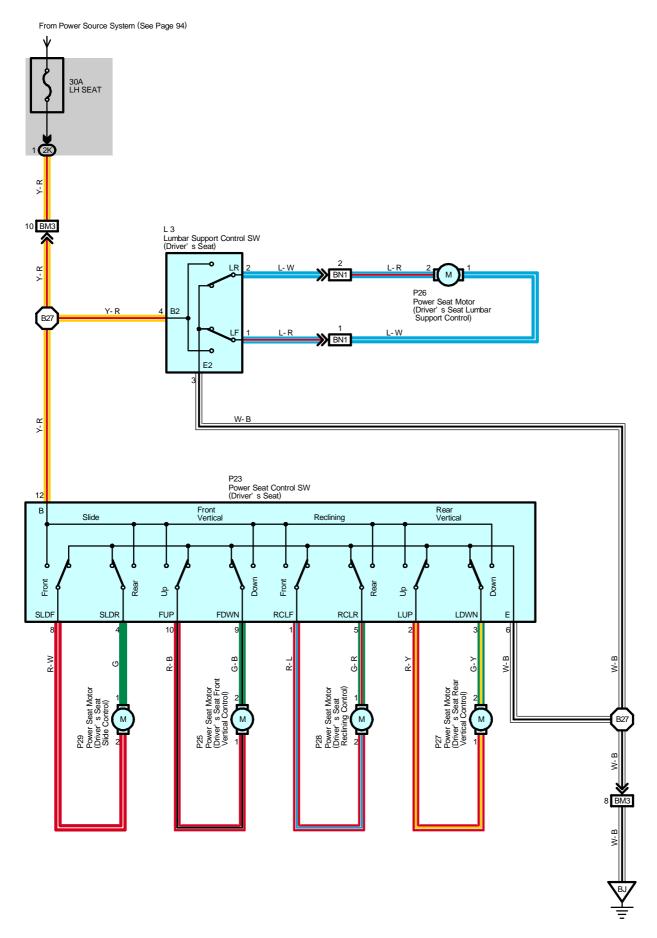
: Ground Points

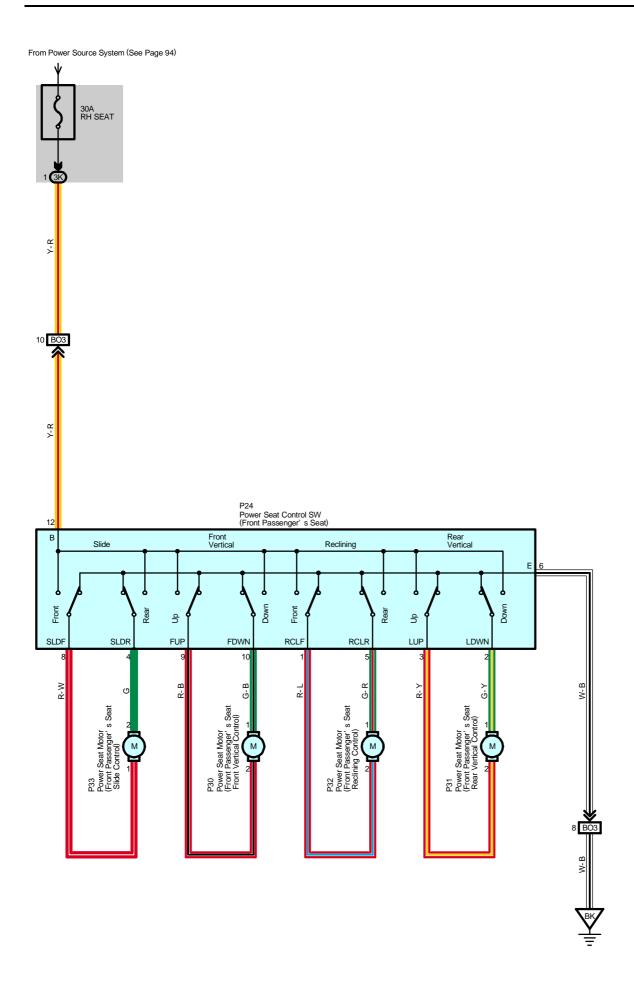
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
IF	70	Set Bolt of Cowl Side J/B LH
IG	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat



: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B11	88	Floor No.1 Wire
B6	88	Floor No.1 Wire	B15	88	Back Door Upper Wire
B8	88	Front Door RH Wire			





Power Seat

Service Hints

P23 Power Seat Control SW (Driver's Seat)

12-1 : Closed with driver's seat at front reclining operation

12-5 : Closed with driver's seat at rear reclining operation

12-10 : Closed with driver's seat at front vertical up operation

12-9 : Closed with driver's seat at front vertical down operation

12-2 : Closed with driver's seat at rear vertical up operation

12-3 : Closed with driver's seat at rear vertical down operation

12-8 : Closed with driver's seat at front slide operation

12-4 : Closed with driver's seat at rear slide operation

6-Ground: Always continuity

P24 Power Seat Control SW (Front Passenger's Seat)

12-1: Closed with front passenger's seat at front reclining operation

12-5 : Closed with front passenger's seat at rear reclining operation

12-9 : Closed with front passenger's seat at front vertical up operation

12-10 : Closed with front passenger's seat at front vertical down operation

12-3 : Closed with front passenger's seat at rear vertical up operation

12-2 : Closed with front passenger's seat at rear vertical down operation

12-8 : Closed with front passenger's seat at front slide operation

12-4 : Closed with front passenger's seat at rear slide operation

6-Ground: Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
L3	74	P26	74	P30	74
P23	74	P27	74	P31	74
P24	74	P28	74	P32	74
P25	74	P29	74	P33	74

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2K	K 28 Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)	
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)

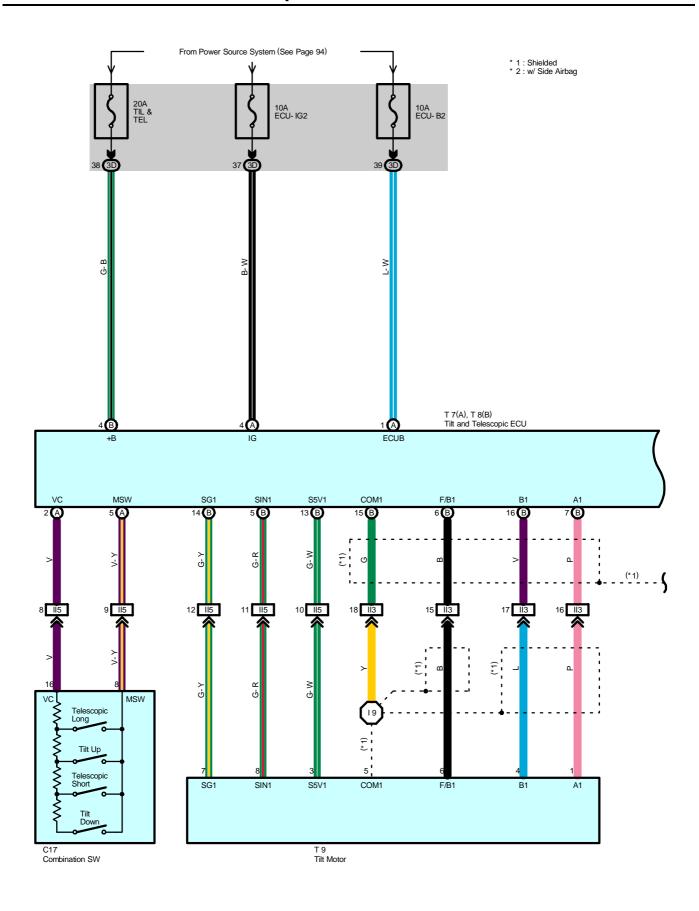
: Connector Joining Wire Harness and Wire Harness

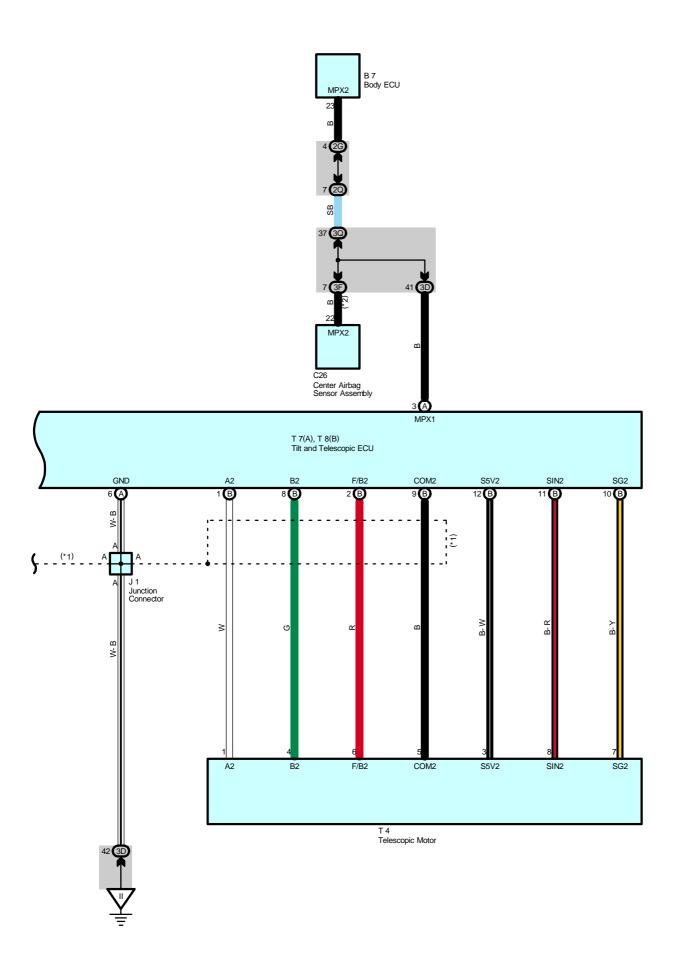
_			
	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
Ī	ВМ3	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
Ī	BN1	90	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)
Ī	BO3	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)

: Ground Points

•		
Code	See Page	Ground Points Location
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

Code	Code See Page Wire Harness with Splice Points		Code	See Page	Wire Harness with Splice Points
B27	90	Front Seat LH Wire			





Power Tilt and Power Telescopic

System Outline

This system provides the automatic tilt and telescopic mechanisms using the motor drive, tilt and telescopic ECU control, allowing variable steering movement in the back and forth, and vertical directions. This makes it possible to set the steering to the desired steering position.

Service Hints

T7 (A), T8 (B) Tilt and Telescopic ECU

(A) 1-Ground : Always approx. 12 volts(B) 4-Ground : Always approx. 12 volts

(A) 4-Ground: Approx. 12 volts with ignition SW at ON or ST position

(A) 6-Ground: Always continuity

C17 Combination SW

16-8 : Approx. 160 Ω with telescopic long operation

: Approx. 360 Ω with tilt up operation

: Approx. 790 Ω with telescopic short operation : Approx. 1.99 $k\Omega$ with tilt down operation

: Parts Location

Code	See Page	Code	æ	See Page	Co	de	See Page
B7	70	J1		71	T8	В	71
C17	70	T4		71	Т	9	71
C26	70	T7	Α	71			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
2G	28	sh Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D	40	Doob Wire and Coul Side I/D DLI /Dight Kiek Danel)			
3F	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

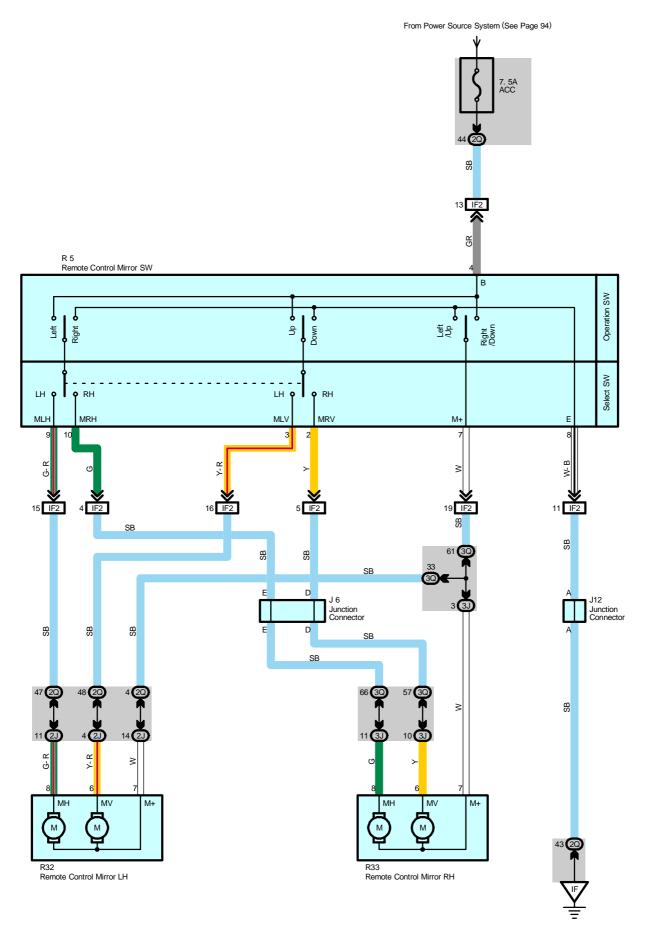
: Connector Joining Wire Harness and Wire Harness

	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
	II3	90	Dash Wire and Column Wire (Near the Ignition SW)
ĺ	II5	80	Dash wire and Column wire (Near the Ighillon Sw)

: Ground Points

I	Code	See Page	Ground Points Location
I	Ξ	II 78 Set Bolt of Cowl Side J/B RH	

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
19	80 Column Wire				



R5 Remote Control Mirror SW

7-8 : Continuity with operation SW at LEFT or UP position

4-7: Continuity with operation SW at RIGHT or DOWN position

4-9 : Continuity with operation SW at LEFT position and the select SW at LH position

4-3 : Continuity with operation SW at UP position and the select SW at LH position

8-10 : Continuity with operation SW at RIGHT position and the select SW at RH position

2-8 : Continuity with operation SW at DOWN position and the select SW at RH position

4-Ground: Approx. 12 volts with ignition SW at ACC or ON position

8-Ground: Always continuity

) : Parts Location

Code	See Page	Code	See Page	Code	See Page
J6	71	R5	71	R33	73
J12	71	R32	73		

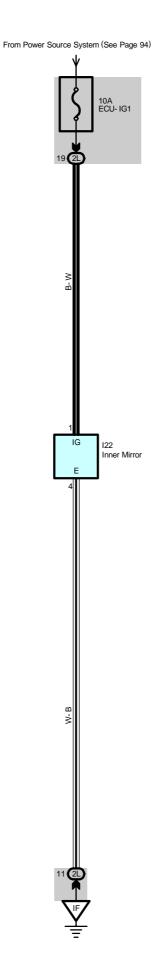
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2J	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)	

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH



I22 Inner Mirror

1-Ground: Approx. 12 volts with ignition SW at ON or ST position

4-Ground: Always continuity

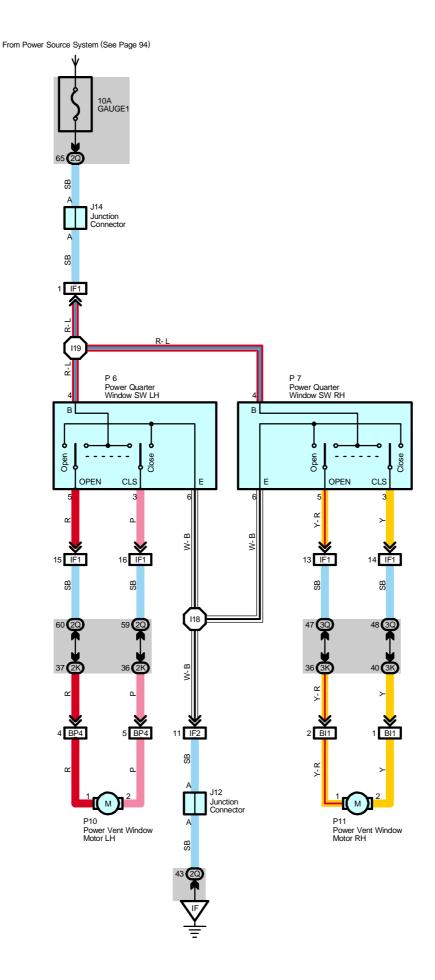
: Parts Location

Code	See Page	Code	See Page	Code	See Page
122	72				

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)	

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH



P6 Power Quarter Window SW LH

4-Ground: Approx. 12 volts with ignition SW at ON or ST position

6-Ground: Always continuity

P7 Power Quarter Window SW RH

4-Ground: Approx. 12 volts with ignition SW at ON or ST position

6-Ground: Always continuity

) : Parts Location

Code	See Page	Code	See Page	Code	See Page
J12	71	P6	71	P10	73
J14	71	P7	71	P11	73

0

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IF1	70	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)			
IF2	78				
BI1	86	Roof No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)			
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			

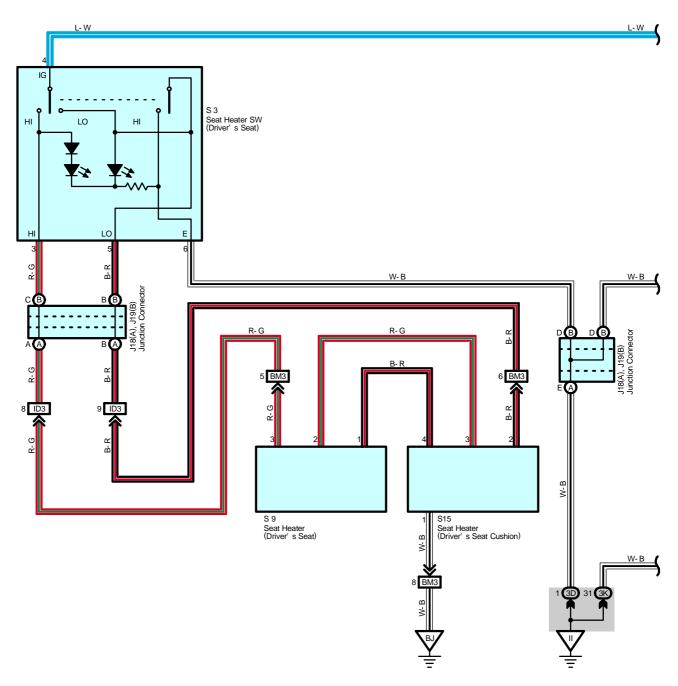
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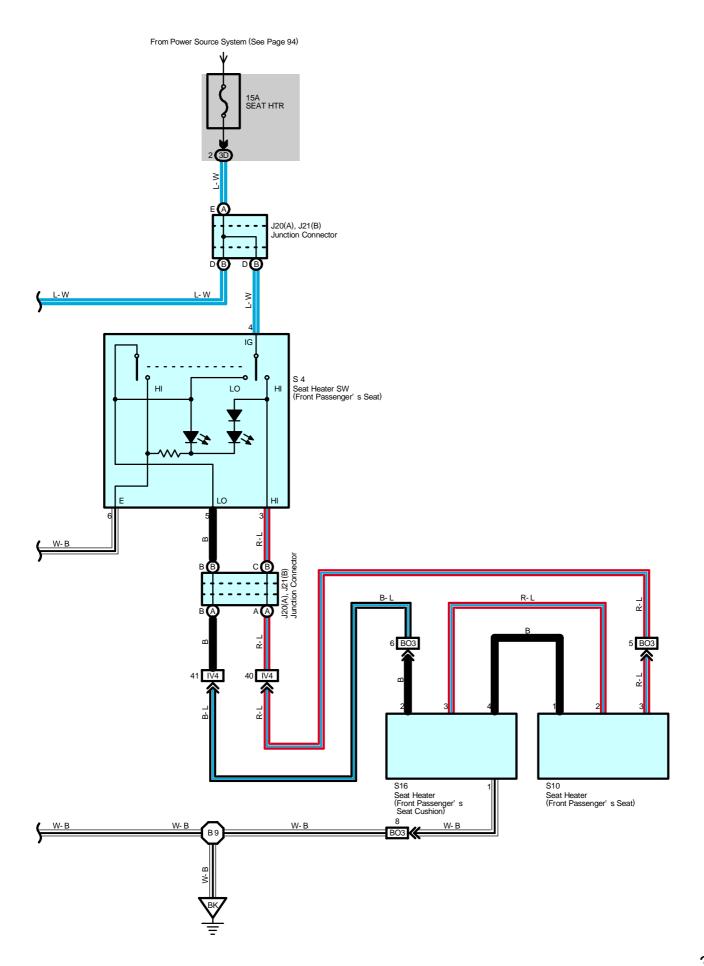
: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH



Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I18	80	Instrument Panel Wire		80	Instrument Panel Wire





Seat Heater

Service Hints

S3 Seat Heater SW (Driver's Seat)

4-Ground: Approx. 12 volts with ignition SW at ON or ST position

6-Ground: Always continuity

S4 Seat Heater SW (Front Passenger's Seat)

4-Ground: Approx. 12 volts with ignition SW at ON or ST position

6-Ground: Always continuity

: Parts Location

Co	Code See Page		Code	Code See Page		See Page
J18	Α	71	S3	71	S15	74
J19	В	71	S4	71	S16	74
J20	Α	71	S9	74		
J21	В	71	S10	74		

: Junction Block and Wire Harness Connector

Code	See Page	lunction Block and Wire Harness (Connector Location)	
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)	
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)	

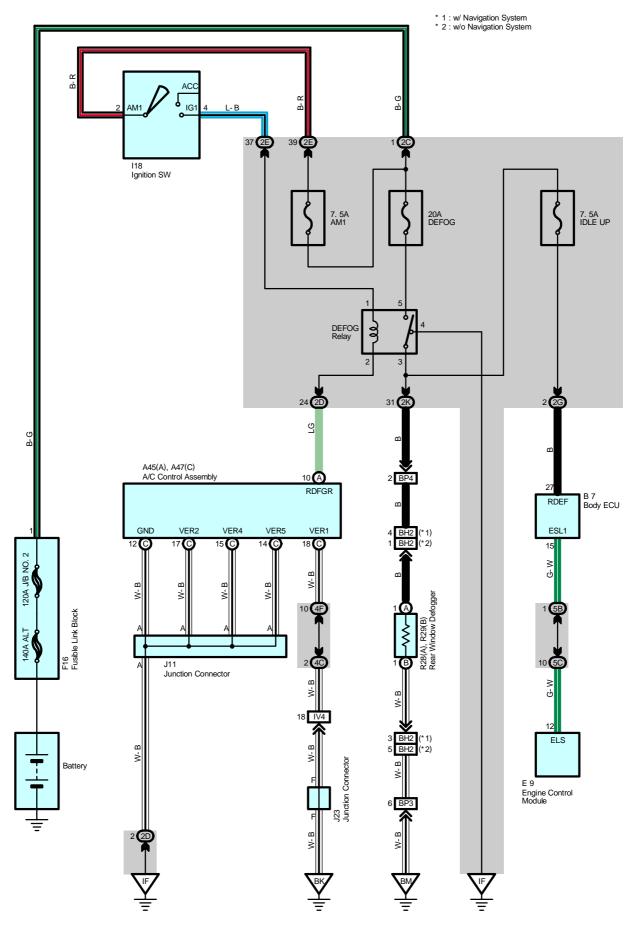
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID3	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
BM3	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BO3	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)

: Ground Points

Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

С	ode	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E	B9	88	Floor No.2 Wire			



A45 (A), A47 (C) A/C Control Assembly

(A)10-Ground : Approx. 12 volts with ignition SW at ON or ST position (C)12, (C) 14, (C) 15, (C) 17, (C) 18-Ground : Always continuity

: Parts Location

Co	Code See Page Code S		See Page	Co	de	See Page	
A45	Α	70	F16	68	R28	Α	73
A47	С	70	l18	70	R29	В	73
В	7	70	J11	71			
Е	9	70	J23	72			

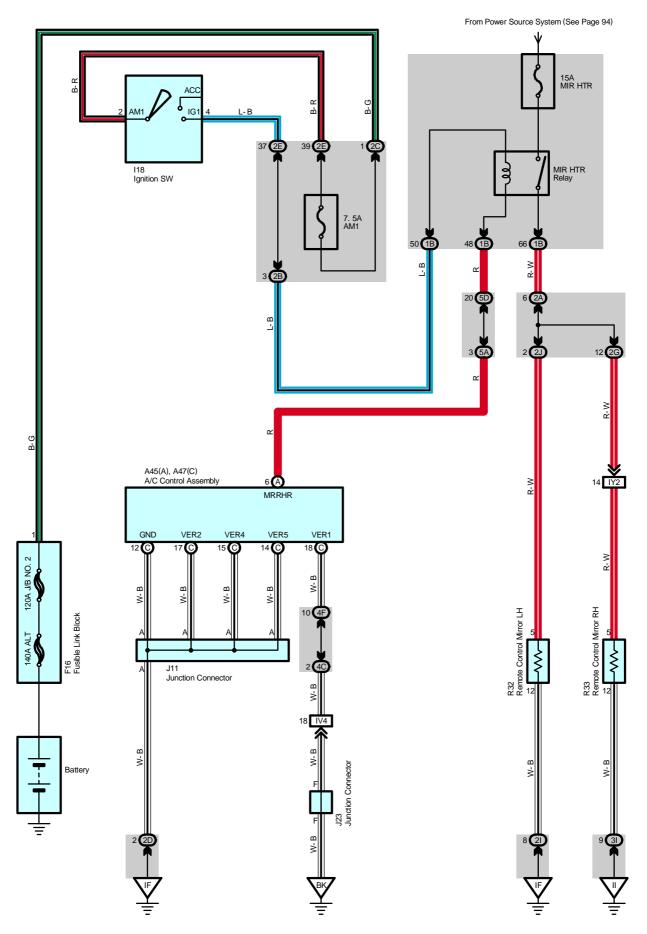
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
2C	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2D					
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2G					
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
4C	50	Dook Wire and I/D No. 4 (Instrument Donal Contan)			
4F	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
5B	- 56	Doob Wire and I/P No 5 (Pobind the Combination Mater)			
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	loining Wire Harness and Wire Harness (Connector Location)			
IV4	82	Pash Wire and Floor No.2 Wire (Right Kick Panel)			
BH2	86	illar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BP3	00	Dillockle 4 Wise and Floor No. 4 Wise // of Door Cide Overton Door)			
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			

Code	See Page	Ground Points Location	
IF	78	Set Bolt of Cowl Side J/B LH	
BK	86	ront Side Under the Front Passenger's Seat	
BM	86	Left Rear Side Quarter Panel	



A45 (A), A47 (C) A/C Control Assembly

(A) 6-Ground : Approx. 12 volts with ignition SW at ON or ST position (C)12, (C) 14, (C) 15, (C) 17, (C) 18-Ground : Always continuity

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A45	Α	70	l18	70	R32	73
A47	С	70	J11	71	R33	73
F.	16	68	J23	72		

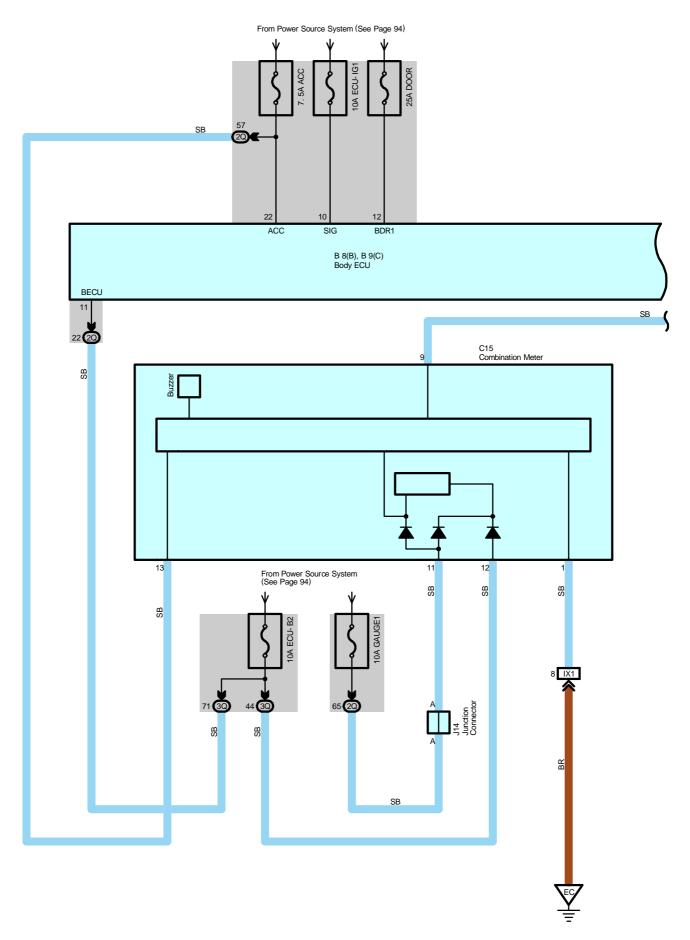
: Junction Block and Wire Harness Connector

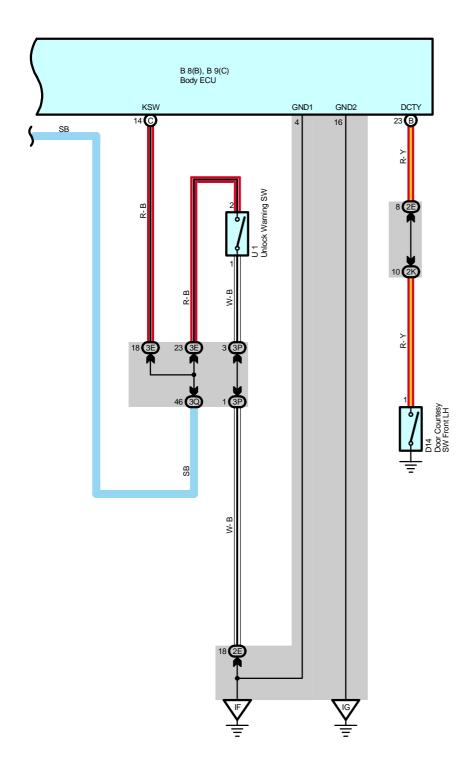
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2A					
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2C					
2D					
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2G					
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
2J	20	FIOHEDOOLED WHE AND COWN SIDE J/D ED (LEIL NICK FAHEI)			
31	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)			
4C	52	Doob Mira and I/P No. 4 (Instrument Bonal Center)			
4F	32	Dash Wire and J/B No.4 (Instrument Panel Center)			
5A	56	Dash Wire and J/B No.5 (Behind the Combination Meter)			
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)			

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat





Key Reminder

System Outline

When the driver door is opened with the ignition SW off and ignition key remaining in the key cylinder (Unlock warning SW on), a signal is input from the unlock warning SW to the combination meter TERMINAL 9, the body ECU TERMINAL (C) 14, and from the door courtesy SW front LH to the body ECU TERMINAL (B)23. As a result, the buzzer in the combination meter goes on and warns the driver that the key is remaining in the key cylinder.

Service Hints

D14 Door Courtesy SW Front LH

1-Ground: Closed with driver's door open

: Parts Location

С	ode	See Page	Code	See Page	Code	See Page
B8	В	70	C15	70	J14	71
В9	С	70	D14	72	U1	71

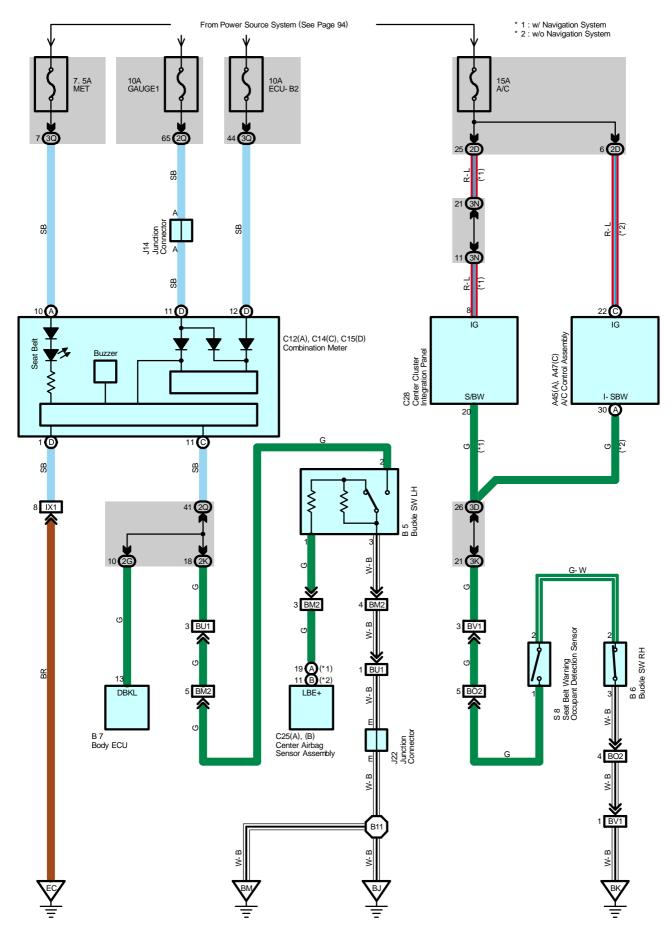
: Junction Block and Wire Harness Connector

Code	See Page	unction Block and Wire Harness (Connector Location)			
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	oor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	nstrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3E	40	Seeh Wire and Coul Side I/P PH / Pight Kick Panel\			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

: Connector Joining Wire Harness and Wire Harness

Ī	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ſ	IX1	82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	

Code	See Page	Ground Points Location
EC 76 Rear Bank of Right Cylinder Head		Rear Bank of Right Cylinder Head
IF	70	Cat Dalt of Cavel Side 1/D LLI
IG 78		Set Bolt of Cowl Side J/B LH



System Outline

When the ignition SW turned on, a signal is input to the combination meter and the center cluster integration panel (w/ navigation system) or the A/C control assembly (w/o navigation system). To determine whether the driver has fastened the seat belt, a signal is input from the buckle SW LH to the combination meter. When the seat belt is not fastened, the seat belt warning light in the combination meter blinks, and emits a warning sound.

In addition, the front passenger is recognized by a sensor (Seat belt warning occupant detection sensor) is installed in the front passenger seat, and determines whether the seat belt is fastened. When not fastened, the signals from the seat belt warning occupant detection sensor and the buckle SW RH is input to the center cluster integration panel (w/ navigation system) or the A/C control assembly (w/o navigation system), and the passenger seat belt warning light blinks to warn the passenger.

Service Hints

S8 Seat Belt Warning Occupant Detection Sensor

1-2: Closed with passenger sit on the front passenger seat

: Parts Location

Co	de	See Page	Code		See Page	Code	See Page
A45	Α	70	C12	Α	70	C28	70
A47	С	70	C14	С	70	J14	71
В	5	74	C15	D	70	J22	72
B6		74	COF	Α	70	S8	74
В	B7 70		C25	В	70		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)		
2D	20	Doch Wire and Coul Side I/D LLL (Left Viels Done)		
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)		
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)		
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)		
3N	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)		

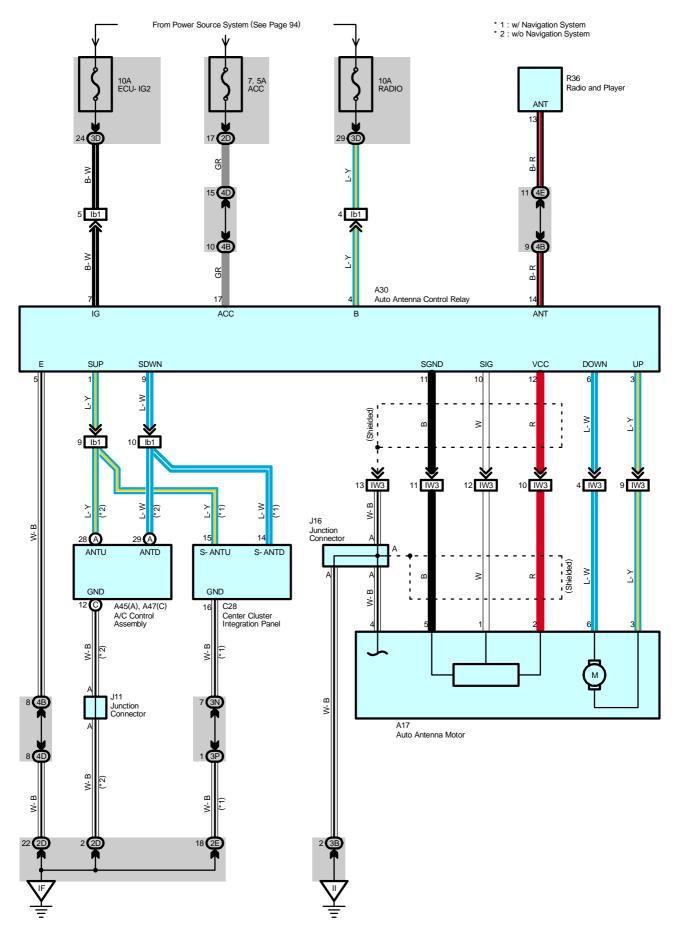
: Connector Joining Wire Harness and Wire Harness

Code	See Page	ining Wire Harness and Wire Harness (Connector Location)			
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
BM2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)			
BO2	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)			
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)			
BV1	BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)				

: Ground Points

Code	See Page	round Points Location		
EC	76	Rear Bank of Right Cylinder Head		
BJ	86 Under the Driver's Seat			
BK	86	Front Side Under the Front Passenger's Seat		
BM	86	Left Rear Side Quarter Panel		

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire			



A30 Auto Antenna Control Relay

4-Ground: Always approx. 12 volts

17-Ground: Approx. 12 volts with ignition SW at ACC or ON position 7-Ground: Approx. 12 volts with ignition SW at ON or ST position

5-Ground: Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
A17		68		С	70	J16	71
Α	30	70	C2	28	70	R36	71
A45	Α	70	J1	11	71		

: Junction Block and Wire Harness Connector

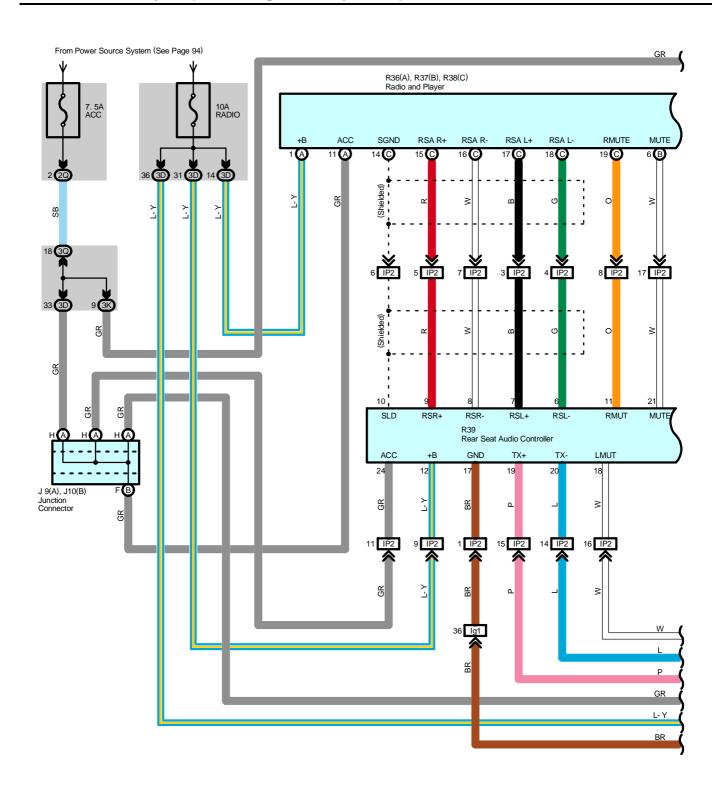
Code	See Page	Junction Block and Wire Harness (Connector Location)			
2D	20	Doch Wire and Coul Cide I/D LLL // of Viel Done)			
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3D	40				
3N	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3P	43				
4B					
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
4E					

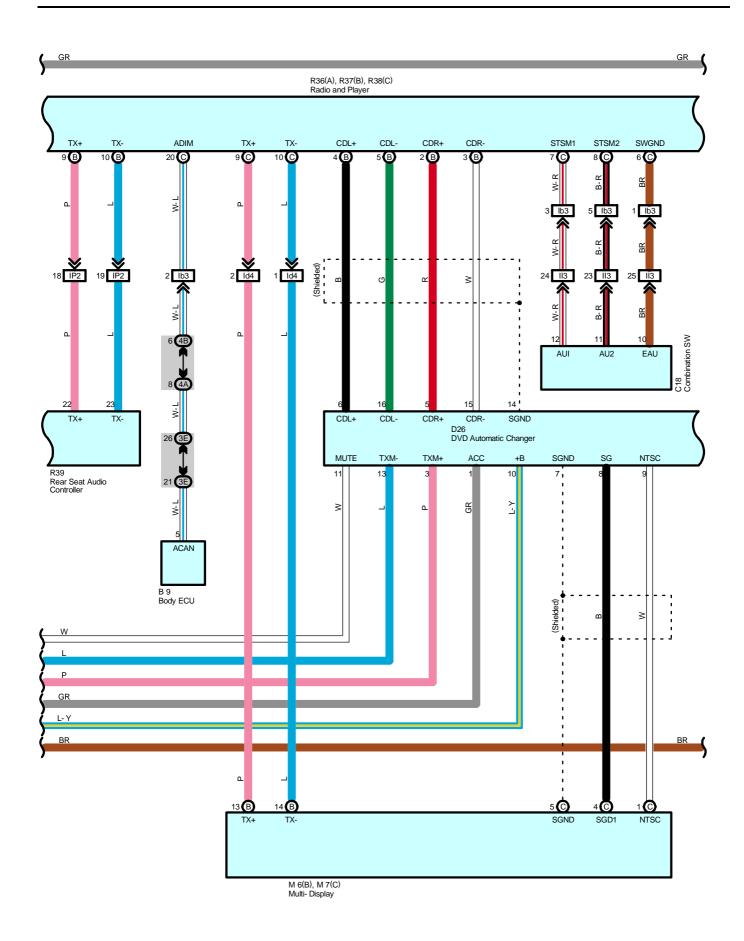
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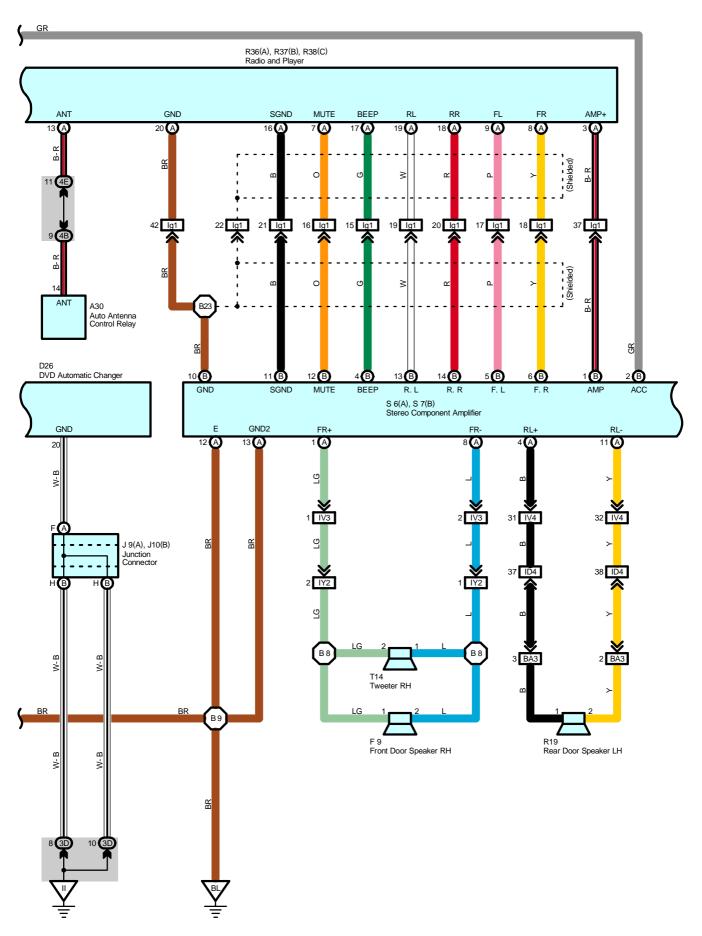
	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
Ī	IW3 82 Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)			
lb1 84 Dash Wire and Dash Wire (Behind the Combination Meter)		Dash Wire and Dash Wire (Behind the Combination Meter)		

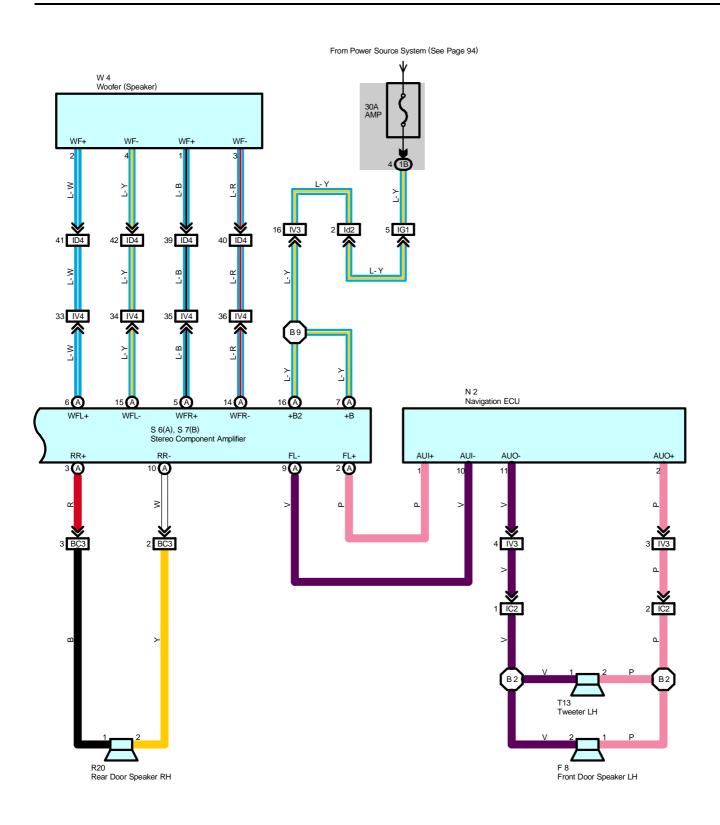
: Gro

Code	See Page	Ground Points Location
IF 78 Set Bolt of Cowl Side J/B LH		
II	78	Set Bolt of Cowl Side J/B RH









Radio and Player (w/ Navigation System)

Service Hints

R36 Radio and Player

1-Ground: Always approx. 12 volts

11-Ground: Approx. 12 volts with ignition SW at ACC or ON position

S6 (A), S7 (B) Stereo Component Amplifier

(A) 7, (A) 16-Ground: Always approx. 12 volts

(B) 2-Ground: Approx. 12 volts with ignition SW at ACC or ON position

(A) 12, (A) 13-Ground: Always continuity

) : Parts Location

Code		See Page	Code		See Page	Code		See Page
A:	30	70	M6	В	71	R39		71
В	39	70	M7	С	71	S6	Α	73
C18		70	N2		72	S7	В	73
D:	26	70	R19		73	T13		73
F	8	72	R20		73	T14		73
F	9	72	R36	Α	71	W4		73
J9	Α	71	R37	В	71			
J10	В	71	R38	С	71			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D	40	Doch Wire and Coul Side I/P BH (Pight Kick Panel)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A					
4B	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
4E					

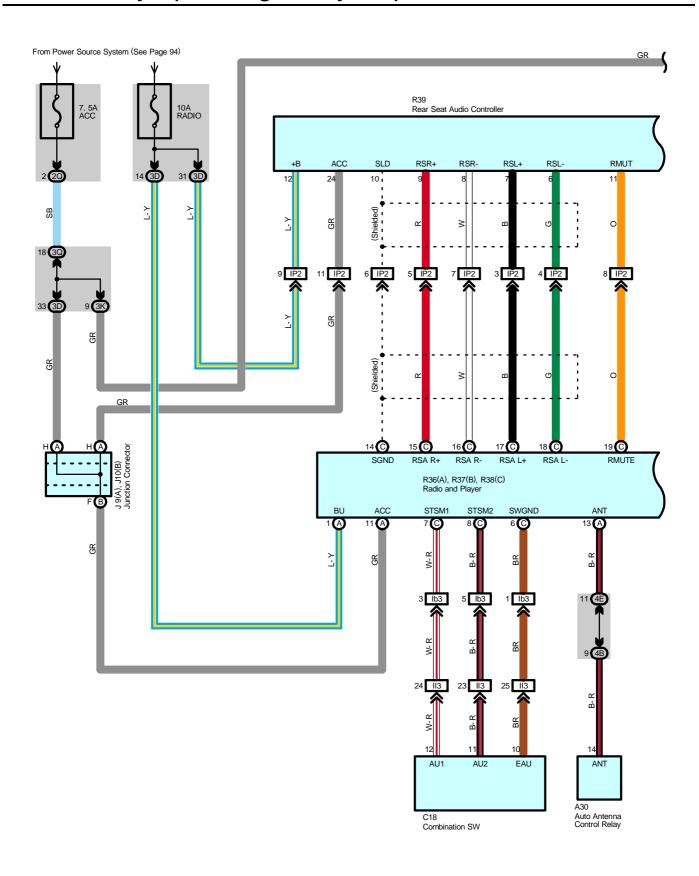
: Connector Joining Wire Harness and Wire Harness

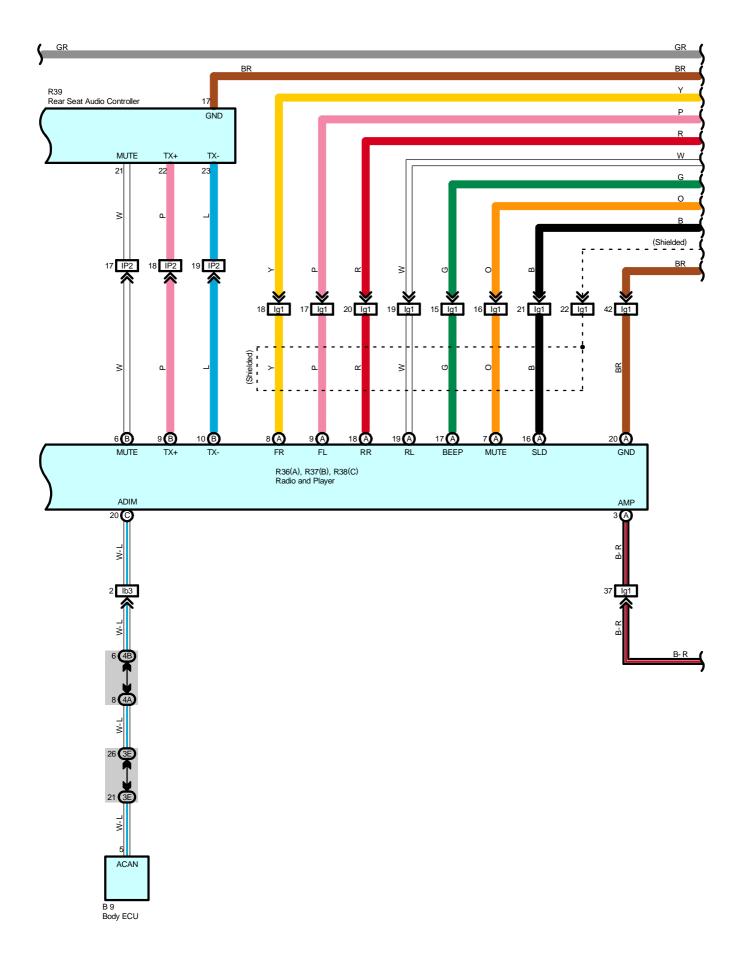
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
II3	80	Dash Wire and Column Wire (Near the Ignition SW)			
IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)			
IV3	00	Dook Wire and Floor No 2 Wire (Dight Kiel, Done)			
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)			
lb3	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
ld2	84	Deeb Wire and Deeb Wire (Instrument Bonel Center)			
ld4	04	Dash Wire and Dash Wire (Instrument Panel Center)			
lg1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)			
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)			
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			

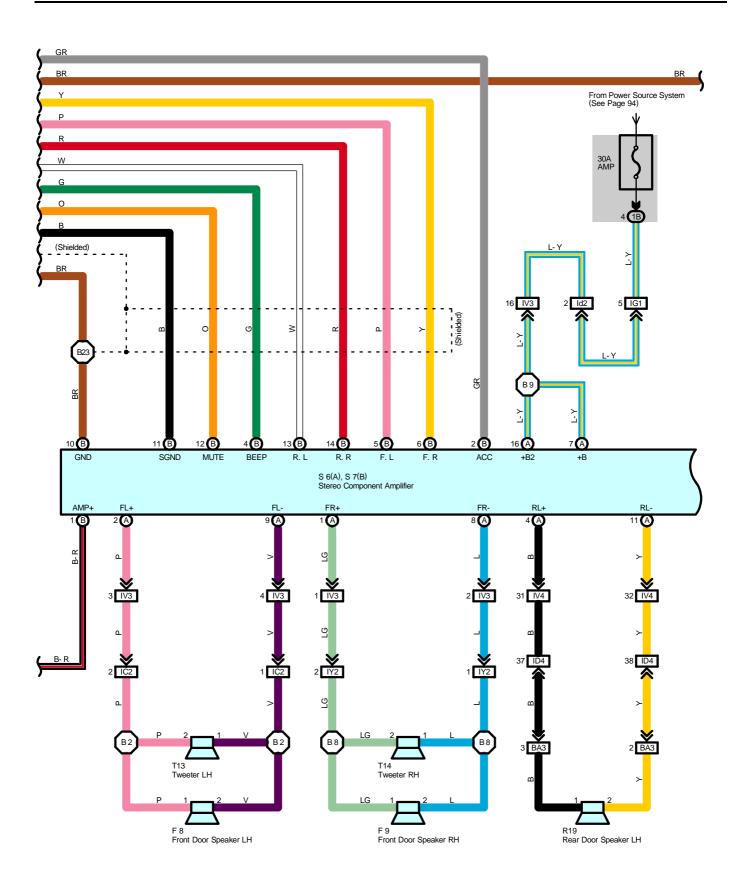
Code	See Page	Ground Points Location	
II	78	Set Bolt of Cowl Side J/B RH	
BL	86	Rear Side Under the Front Passenger's Seat	

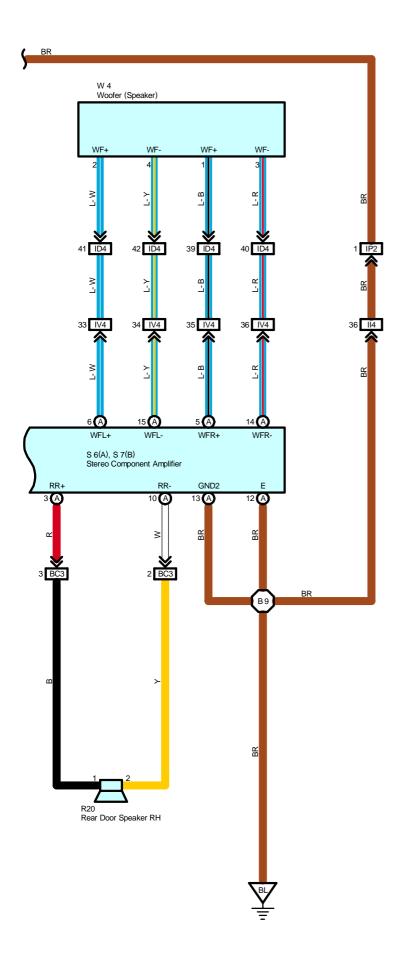


Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88 Front Door LH Wire		B9	- 88	Floor No.2 Wire
B8	88	Front Door RH Wire	B23	00	Pidoi No.2 Wife









Radio and Player (w/o Navigation System)

Service Hints

R36 Radio and Player

1-Ground: Always approx. 12 volts

11-Ground: Approx. 12 volts with ignition SW at ACC or ON position

S6 (A), S7 (B) Stereo Component Amplifier

(A) 7, (A) 16-Ground: Always approx. 12 volts

(B) 2-Ground: Approx. 12 volts with ignition SW at ACC or ON position

(A) 12, (A) 13-Ground: Always continuity

: Parts Location

Co	ode	See Page	Code		See Page	Code		See Page
A:	30	70	J10	В	71	R39		71
В	B9 70		R19		73	S6	Α	73
С	18	70	R20		73	S7	В	73
F	8	72	R36	Α	71	T	13	73
F	. 9	72	R37	В	71	T14		73
J9 A		71	R38	С	71	V	/4	73

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: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3E	40	Dasii Wile alid Cowi Side 3/B KH (Rigiit Kick Paliel)				
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4B	52	Dash Wire and J/B No.4 (Instrument Panel Center)				
4E						

: Connector Joining Wire Harness and Wire Harness

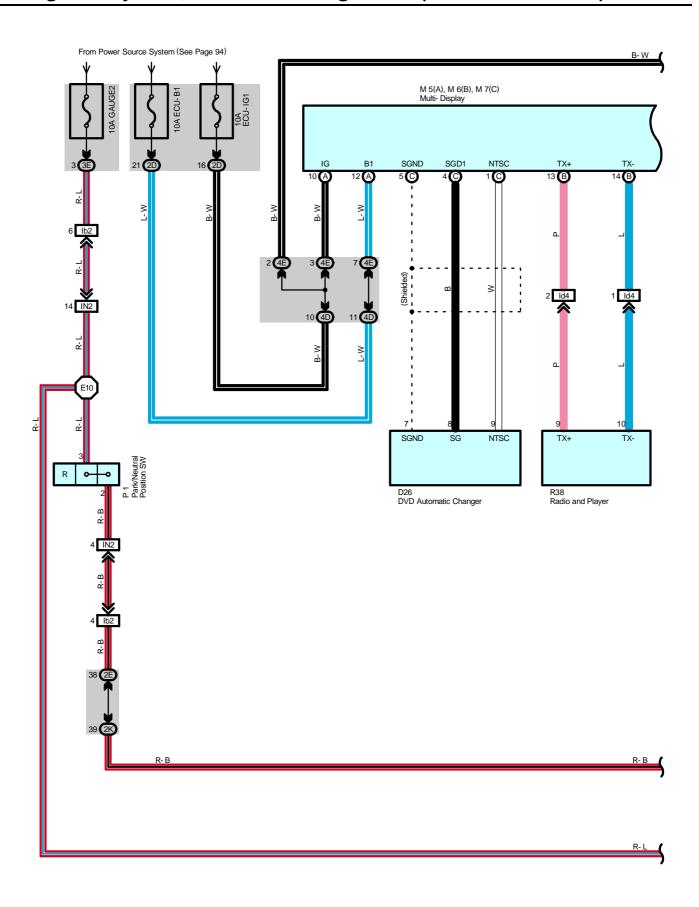
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)				
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)				
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)				
II3	90	Dook Mire and Caluma Mire (Near the Imitian CM)				
114	80	Dash Wire and Column Wire (Near the Ignition SW)				
IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)				
IV3	02	Doch Wire and Floor No 2 Wire (Bight Kick Bone)				
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)				
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)				
lb3	84	Dash Wire and Dash Wire (Behind the Combination Meter)				
ld2	84	Dash Wire and Dash Wire (Instrument Panel Center)				
lg1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)				
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)				
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)				

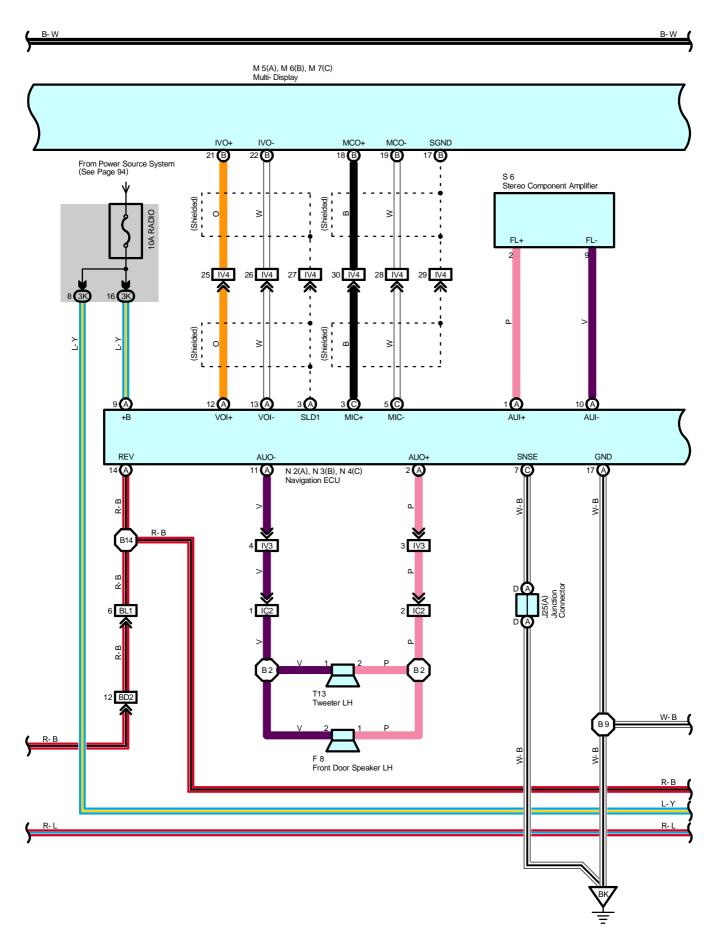
Ī	Code	See Page	Ground Points Location
BL 86 Rear Side Under the Front Passenger's Seat		Rear Side Under the Front Passenger's Seat	

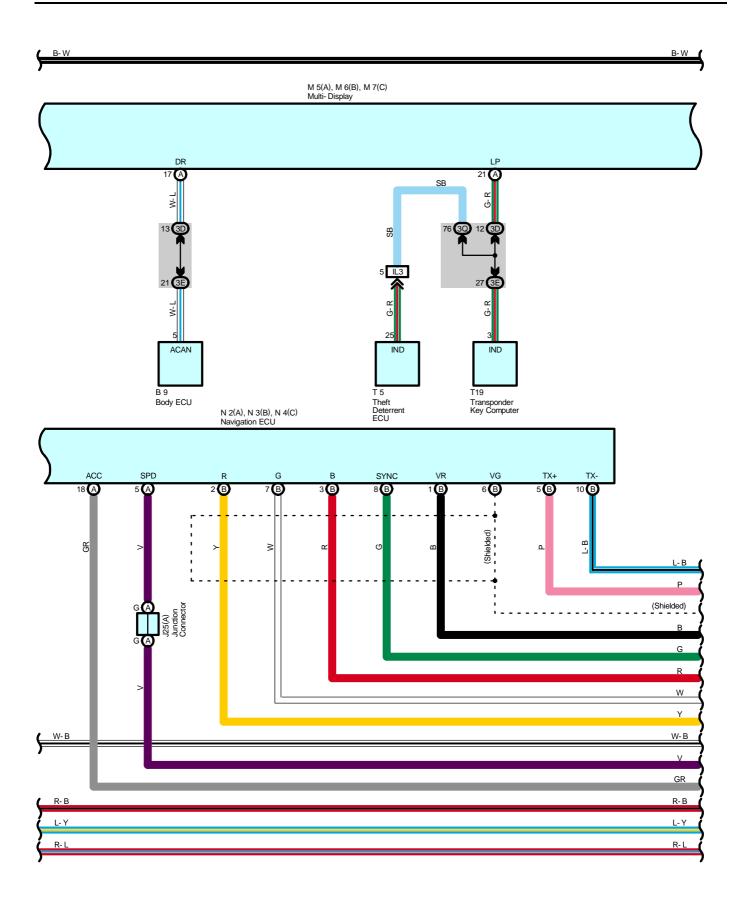


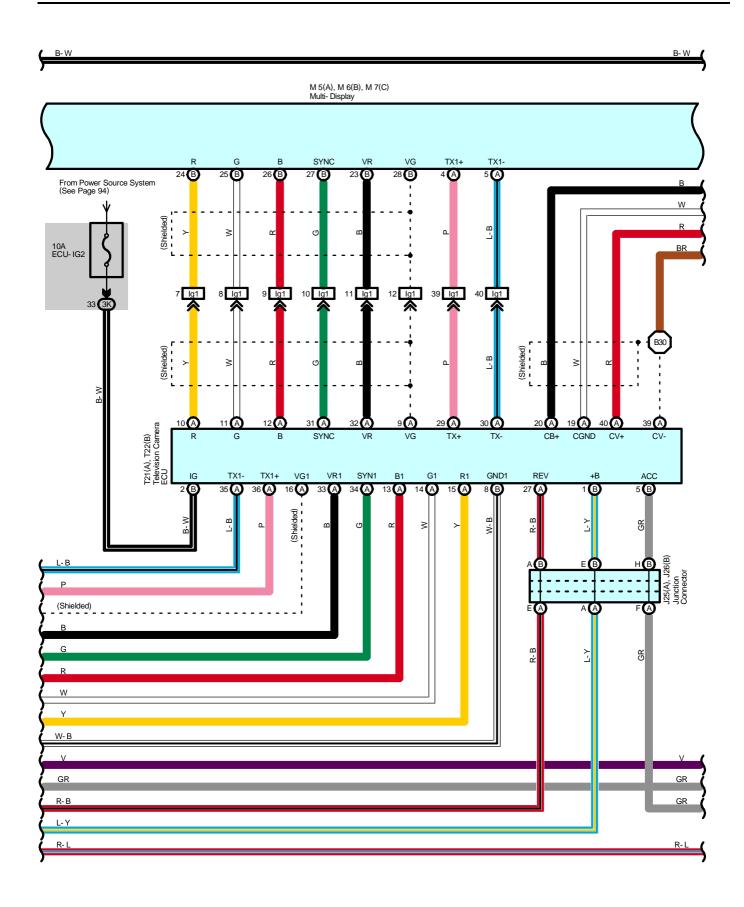
: Splice Points

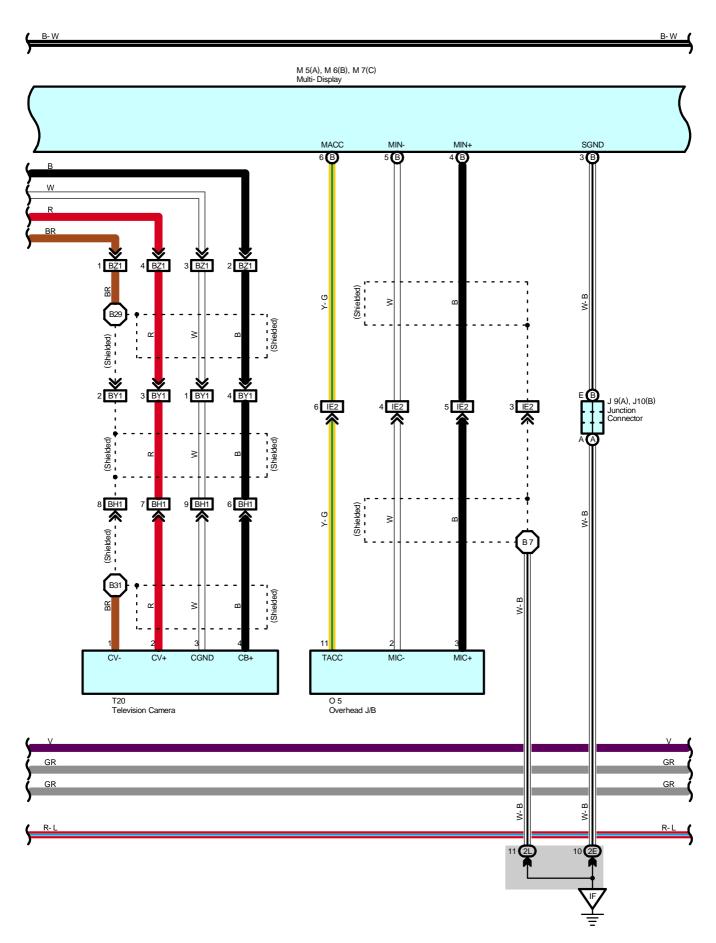
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	
B2	88	Front Door LH Wire	B9	00	Floor No 2 Wire	
B8	88	Front Door RH Wire	B23	00	Floor No.2 Wire	

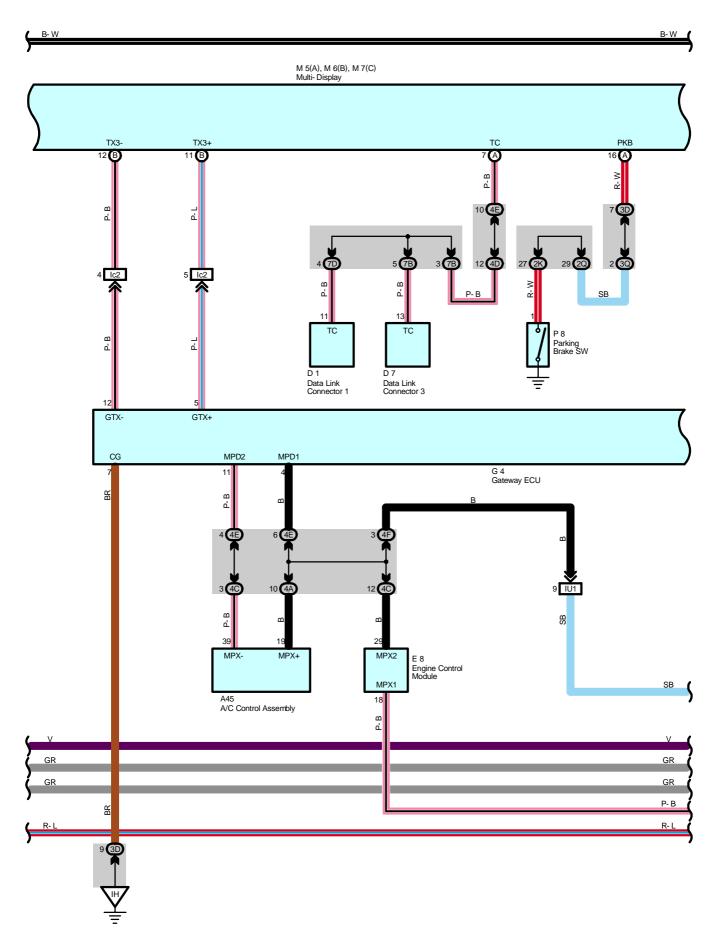


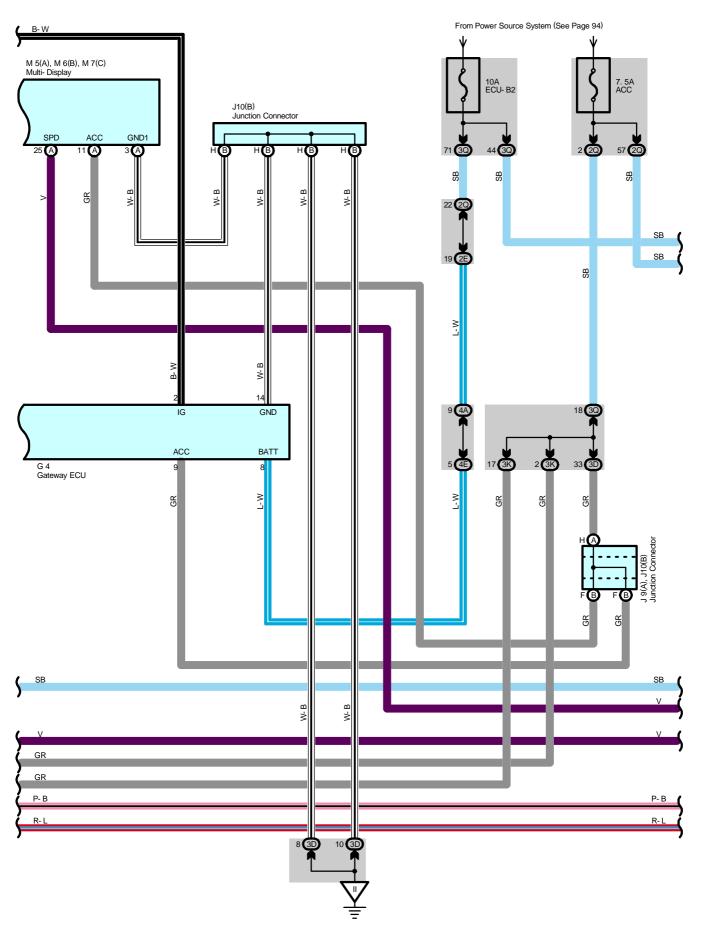


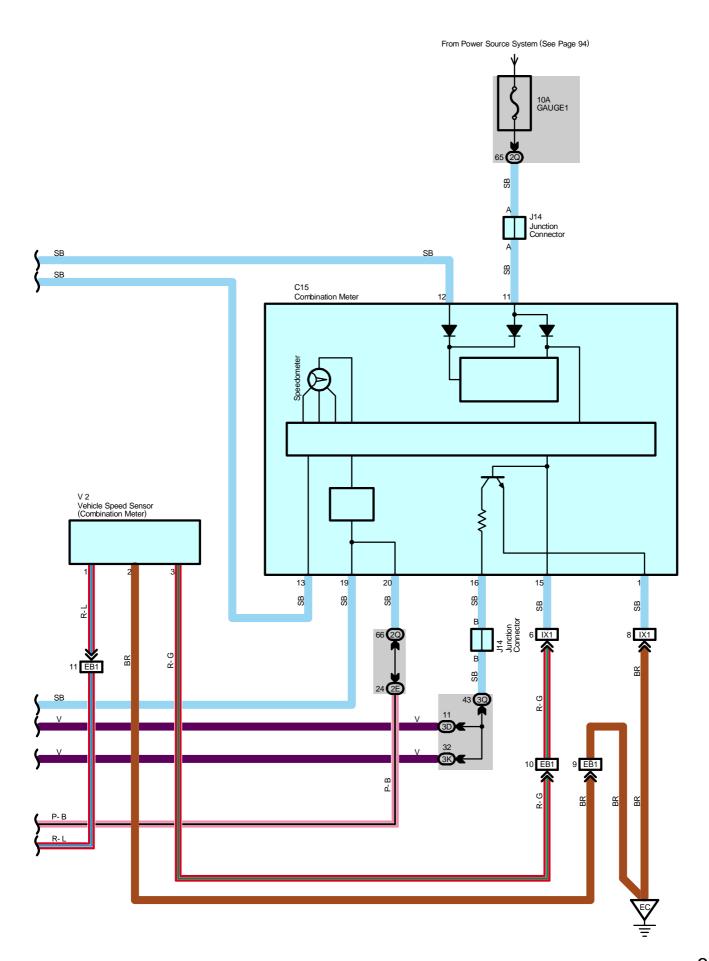












Navigation System, TOYOTA Parking Assist (Rear View Monitor)

System Outline

The navigation system displays the operating status and instructions for the automatic air conditioning or radio and player, as well as trip information. Additionally, the navigation system precisely measures the current vehicle position, displays the map obtained from the map database on the screen, and informs the route to the destination shown on the map using voice guidance.

Service Hints

N2 (A), N4 (C) Navigation ECU

(A) 9-Ground: Always approx. 12 volts

(A)18-Ground: Approx. 12 volts with ignition SW at ACC or ON position

(A)17-Ground: Always continuity (C) 7-Ground: Always continuity

M5 (A), M6 (B) Multi-Display

(A)12-Ground: Always approx. 12 volts

(A)11-Ground: Approx. 12 volts with ignition SW at ACC or ON position (A)10-Ground: Approx. 12 volts with ignition SW at ON or ST position

(A) 3-Ground : Always continuity(B) 3-Ground : Always continuity

T22 Television Camera ECU

1-Ground: Always approx. 12 volts

5-Ground: Approx. 12 volts with ignition SW at ACC or ON position 2-Ground: Approx. 12 volts with ignition SW at ON or ST position

8-Ground: Always continuity

: Parts Location

Co	de	See Page	Code		See Page	Code		See Page
A	45	70	J14		71	P8		73
В	9	70	J25	Α	72	R38		71
C.	15	70	J26	В	72	S6		73
D)1	68	M5	Α	71	T5		71
D)7	70	M6	В	71	T13		73
D2	26	70	M7	С	71	T19		71
Е	8	70	N2	Α	72	T20		73
F	8	72	N3	В	72	T21	Α	73
G	64	70	N4	С	72	T22	В	73
J9	Α	71	O5		72	V2		69
J10	В	71	Р	1	69			



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)					
2E	20						
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)					
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)					
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)					
3D	40	Dook Wise and Coud Cide I/D DI I (Diskt Kiels Done)					
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)					
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)					
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)					
4A							
4C							
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)					
4E							
4F							
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)					
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)					

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)						
EB1	76	Engine Wire and Transmission Wire (On the Transmission)						
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)						
IE2	78	Dash Wire and Roof No.1 Wire (Left Kick Panel)						
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)						
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)						
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)						
IV3	92	Doob Wire and Floor No 2 Wire (Bight Viels Bone))						
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)						
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)						
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)						
lc2	84	Dash Wire and Dash Wire (Behind the Center Panel)						
ld4	84	Dash Wire and Dash Wire (Instrument Panel Center)						
lg1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)						
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)						
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)						
BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)						
BY1	88	Pillar No.1 Wire and Floor No.3 Wire (Left Rear Side Quarter Panel)						
BZ1	88	Floor No.3 Wire and Floor No.2 Wire (Right Side of Rear Floor Crossmember)						

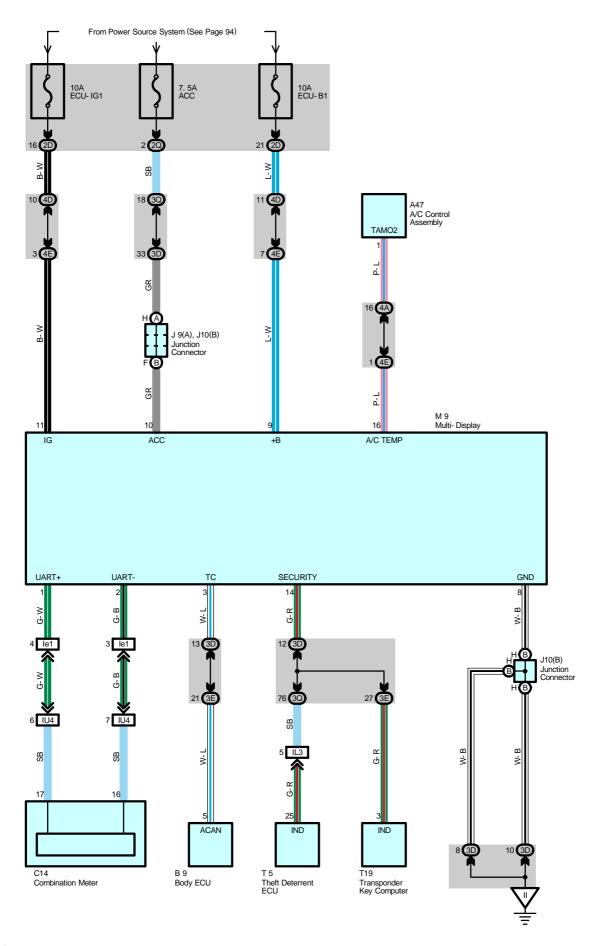
Code	See Page	Ground Points Location				
EC	76	Rear Bank of Right Cylinder Head				
IF	78	et Bolt of Cowl Side J/B LH				
IH	70	Set Bolt of Cowl Side J/B RH				
II	78	Set Bolt of Cowi 2/18 KH				
BK	86	Front Side Under the Front Passenger's Seat				

Navigation System, TOYOTA Parking Assist (Rear View Monitor)

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: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire	B14	88	Floor No.2 Wire
B2	88	Front Door LH Wire	B29	88	Floor No.3 Wire
B7	88	Roof No.1 Wire	B30	88	Floor No.2 Wire
В9	88	Floor No.2 Wire	B31	88	Back Door Upper Wire



Service Hints

M9 Multi-Display

9-Ground: Always approx. 12 volts

10-Ground: Approx. 12 volts with ignition SW at ACC or ON position 11-Ground: Approx. 12 volts with ignition SW at ON or ST position

8-Ground: Always continuity

: Parts Location

Code	See Page	Code		See Page	Code	See Page
A47	70	J9	Α	71	T5	71
B9	70	J10	В	71	T19	71
C14	70	M	19	71		

: Junction Block and Wire Harness Connector

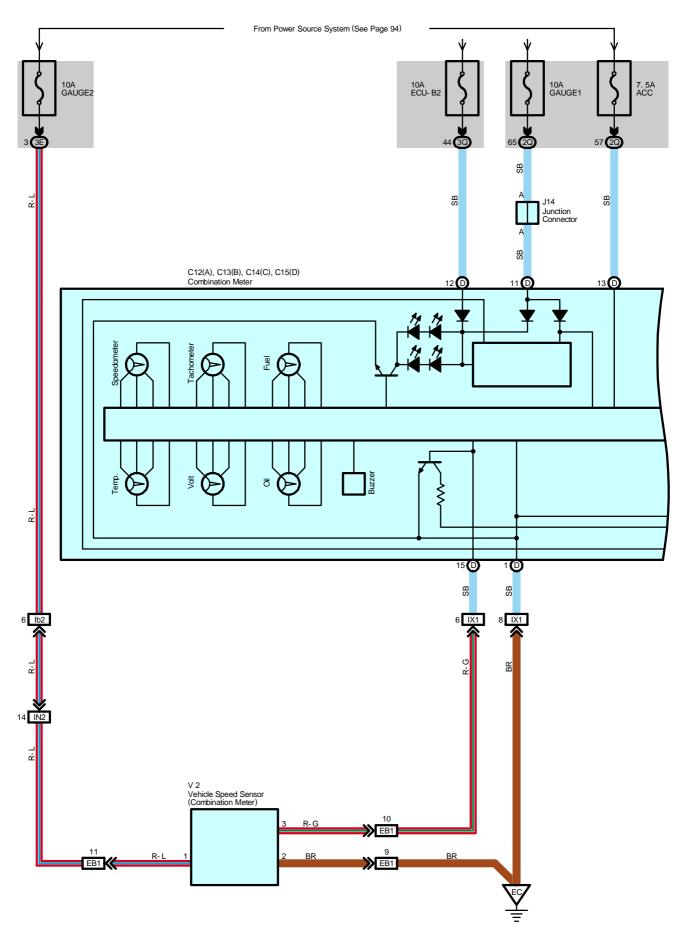
Code	See Page	Junction Block and Wire Harness (Connector Location)				
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3D	40	Cook Wire and Coul Cide 1/D DH / Disht Kiel, Decell				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)				
4E						

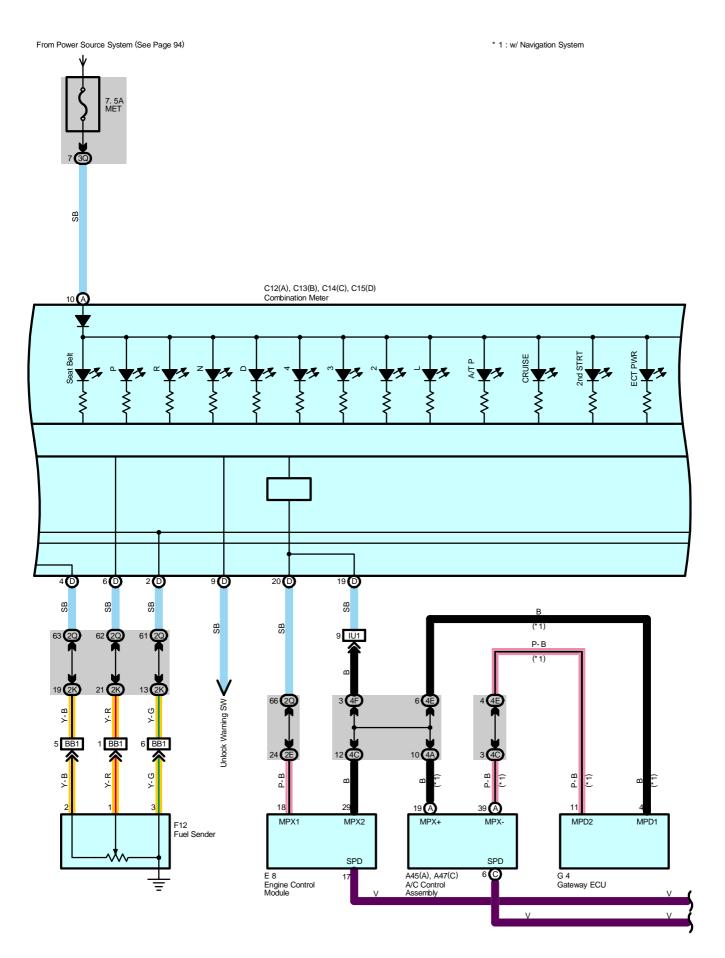
: Connector Joining Wire Harness and Wire Harness

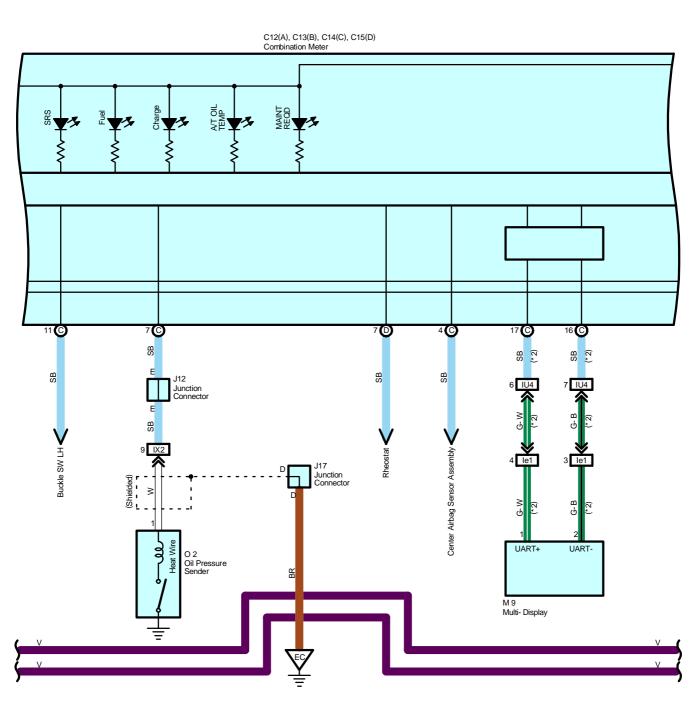
Code	See Page	pining Wire Harness and Wire Harness (Connector Location)			
IL3	80	strument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IU4	82	strument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
le1	84	Dash Wire and Dash Wire (Behind the Glove Box)			

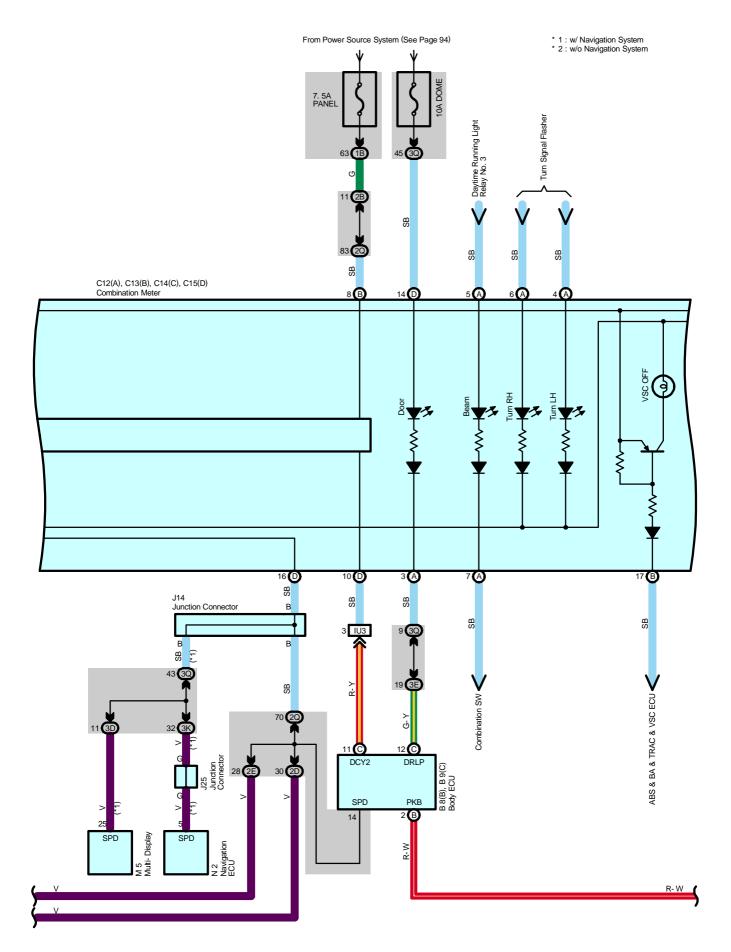
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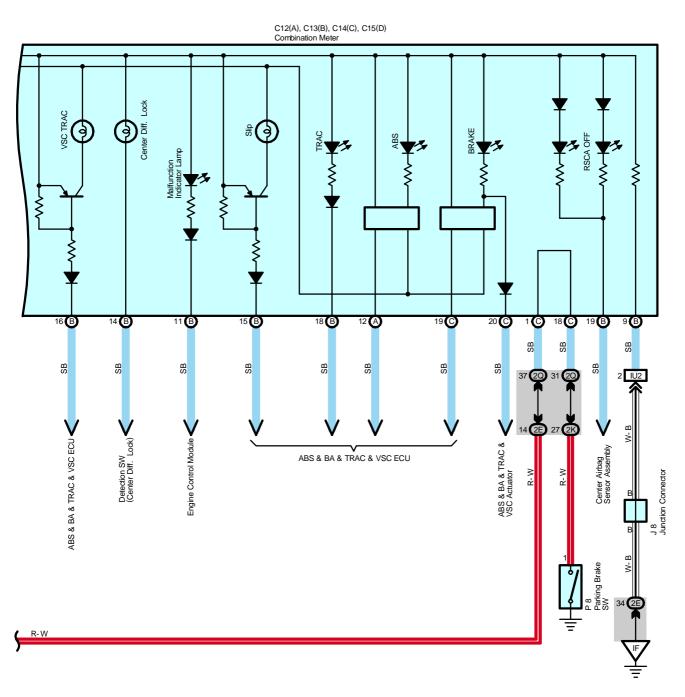
Code	See Page	Ground Points Location
=	78	Set Bolt of Cowl Side J/B RH











Service Hints

P8 Parking Brake SW

1-Ground: Closed with parking brake lever pulled up

C12 (A), C13 (B), C15 (D) Combination Meter

(D) 12, (D) 14-Ground: Always approx. 12 volts

(D) 13-Ground: Approx. 12 volts with ignition SW at ACC or ON position (A) 10, (D) 11-Ground: Approx. 12 volts with ignition SW at ON or ST position

(B) 8-Ground: Approx. 12 volts with light control SW at TAIL or HEAD position

(B) 9, (D) 1-Ground: Always continuity

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page
A45	Α	70	E8	70	M5	71
A47	С	70	F12	72	M9	71
B8	В	70	G4	70	N2	72
B9	С	70	J8	71	O2	69
C12	Α	70	J12	71	P8	73
C13	В	70	J14	71	V2	69
C14	С	70	J17	71		
C15	D	70	J25	72		

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: Junction Block and Wire Harness Connector

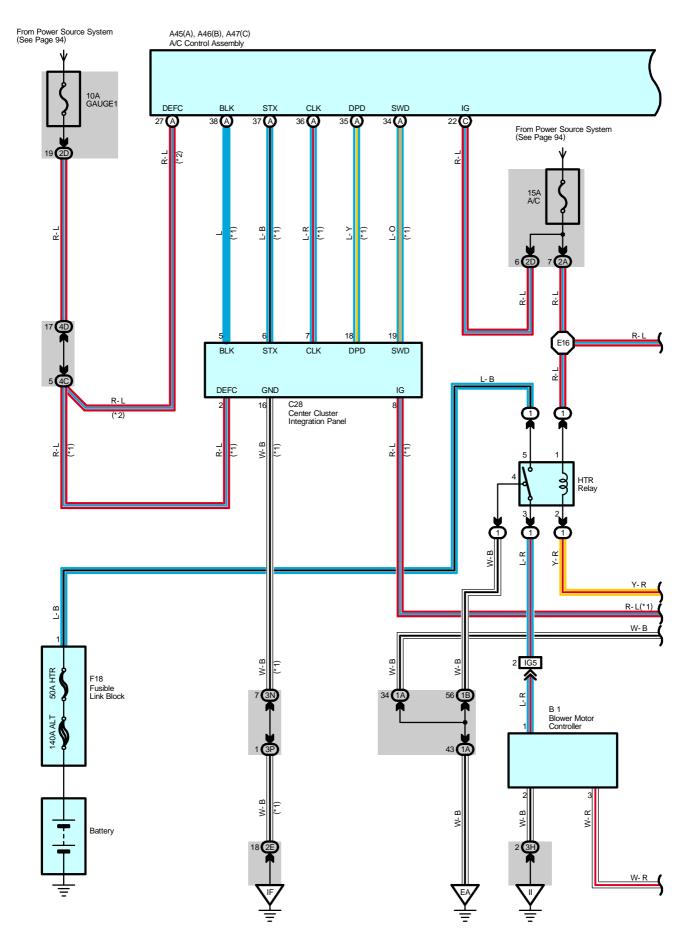
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2D	20	Doob Wire and Coul Side 1/D LLL (Left Viels Bone)				
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3D	40	Dook Wire and Coul Side I/D DLL/Dight Viels Donell				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4C	50	Dealt Miss and MD No. 4 (Instrument Deal Control				
4E	52	Dash Wire and J/B No.4 (Instrument Panel Center)				
4F						

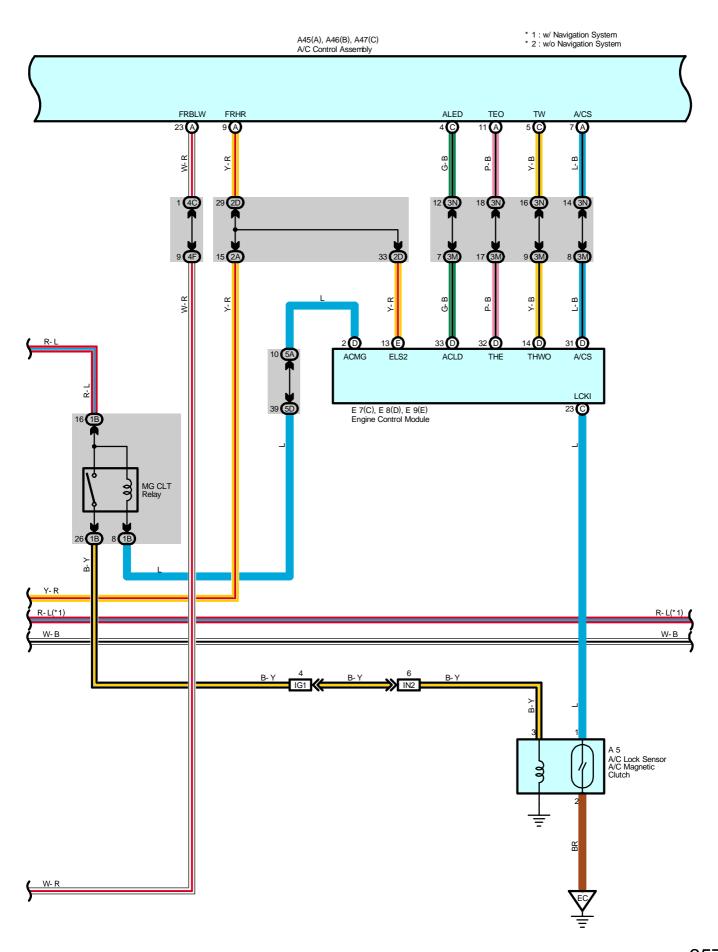
: Connector Joining Wire Harness and Wire Harness

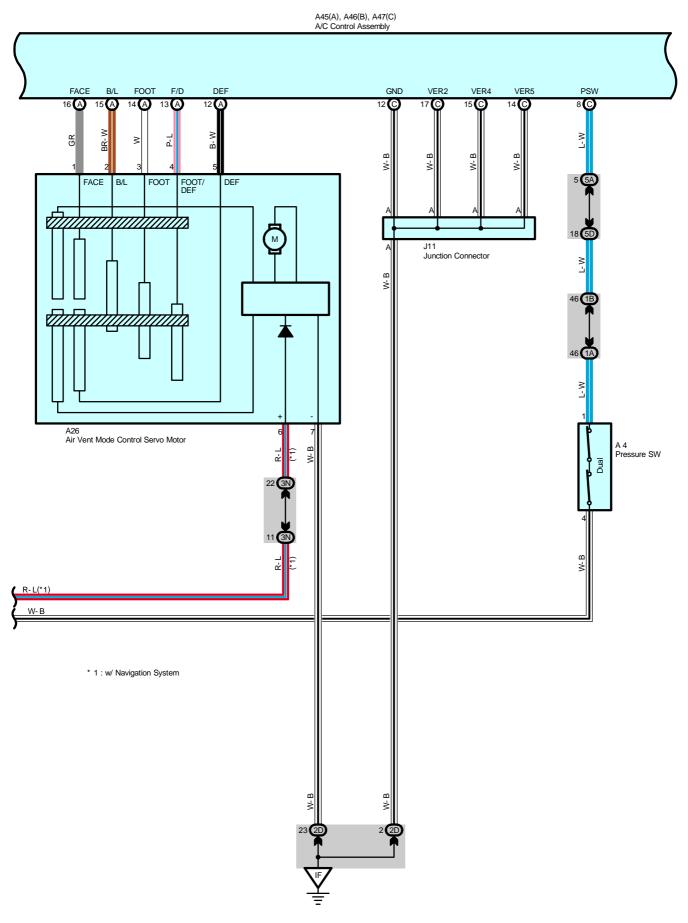
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EB1	76	Engine Wire and Transmission Wire (On the Transmission)				
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)				
IU1						
IU2	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IU3						
IU4						
IX1	92	Lastron and David Late and Carlos Million and English Million (Datical the Oliver David				
IX2	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)				
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)				
le1	84	Dash Wire and Dash Wire (Behind the Glove Box)				
BB1	86	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)				

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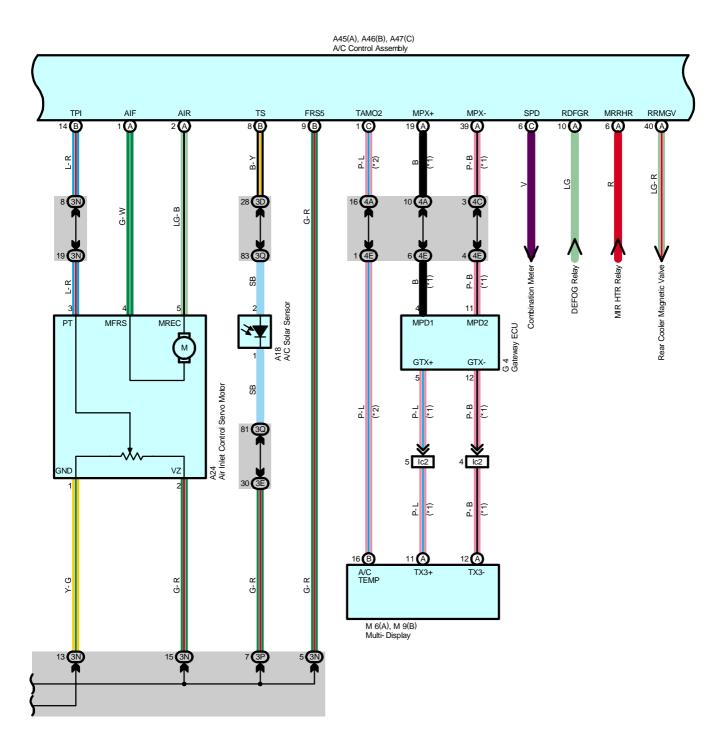
Code	See Page	Ground Points Location			
EC	76	Rear Bank of Right Cylinder Head			
IF	78	Set Bolt of Cowl Side J/B LH			

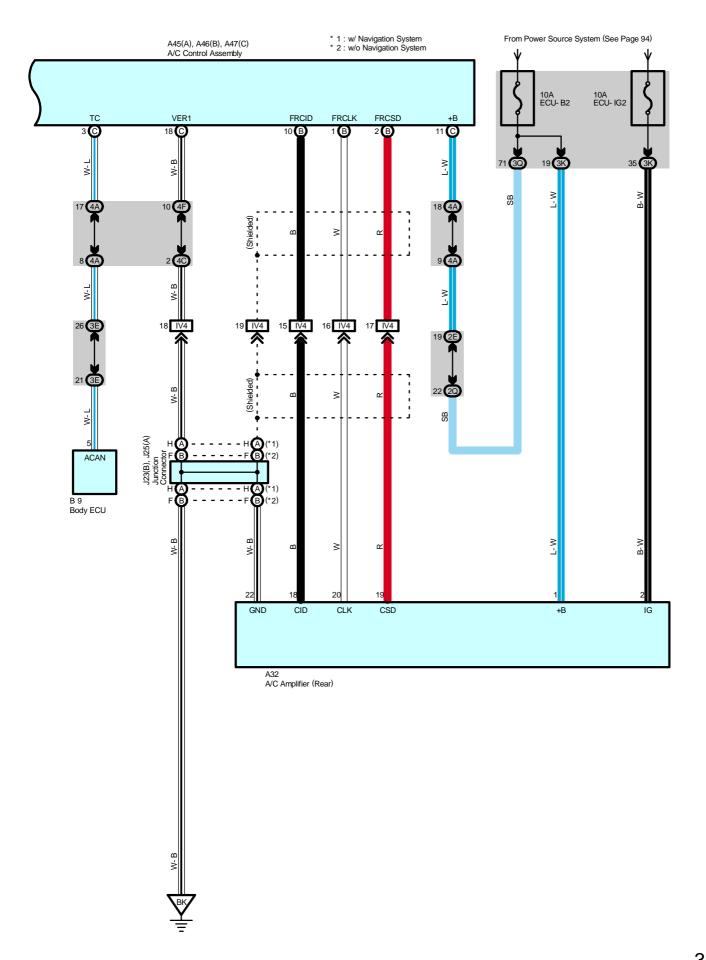






Y- G





Air Conditioning (Front)

System Outline

1. Heater Blower Operation

Manual operation

When the blower speed is set ant any speed by the blower control SW, the A/C control assembly sends a signal to the blower motor controller, and controls the blower motor speed.

Auto operation

When the auto SW is operated, the A/C control assembly sends signals to the blower motor controller, according to the signals from respective sensors, commands from the temperature SW etc., and controls the blower motor automatically.

2. Air Inlet Control Servo Motor Control

When the FRESH/RECIRC select SW is switched to RECIRC, the motor in the air inlet control servo motor rotates to move the damper to the RECIRC side. The damper position is recognized by the A/C control assembly TERMINAL TPI, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is switched to FRESH, the motor in the air inlet control servo motor rotates to move the damper to the FRESH side. The damper position is recognized by the A/C control assembly TERMINAL TPI, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is set to auto, the exhaust gas sensor in the engine room detects the ingredient of the exhaust emission, and switches the FRESH/RECIRC mode automatically.

3. Air Vent Mode Control Servo Motor

When the mode select SW in the A/C control assembly is pushed, a signal is sent from the A/C control assembly, and activates the air vent mode control servo motor. This causes the servo motor to rotate to the position selected using the mode select SW (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF), and moves the damper.

4. Air Mix Control Servo Motor

When the temperature control SW in the A/C control assembly is pushed, a signal is sent from the A/C control assembly, and activates the air mix control servo motor. The motor and damper is moved until it reaches the temperature set by the temperature control SW.

5. Air Conditioning Operation

The A/C control assembly receives various signals, i. e., the engine RPM from the crankshaft position sensor, outlet temperature from the A/C ambient temp. sensor, coolant temperature from the engine coolant temp. sensor, and the lock signal from the A/C compressor, etc. When the engine is started and the A/C SW is turned on, a signal is sent to the A/C control assembly. As a result, the magnetic clutch is turned on and operates the compressor.

In addition, when the engine control module detects that the magnetic clutch is on and the A/C compressor is operating, it controls the engine in the direction to avoid lowering the engine RPM during A/C operation.

When any of the following signals are sent to the A/C control assembly, the A/C is turned off.

- * Coolant temp. is high.
- * Outlet air temp. is low.
- * Large difference between the engine speed and compressor speed.
- * The refrigerant pressure is abnormally high or low.

Service Hints

A45 (A), A47 (C) A/C Control Assembly

(C)11-Ground: Always approx. 12 volts

(C)22-Ground: Approx. 12 volts with ignition SW at ON or ST position

(A)27-Ground: Approx. 12 volts with ignition SW at ON or ST position (w/o navigation system)

(C) 12, (C) 14, (C) 15, (C) 17, (C) 18-Ground: Always continuity

C28 Center Cluster Integration Panel (w/ Navigation System)

2-Ground: Approx. 12 volts with ignition SW at ON or ST position

16-Ground: Always continuity

: Parts Location

Code	See Page	Code		See Page	Code		See Page
A1	68	A45	Α	70	F18		68
A4	68		В	70	G4		70
A5	A5 68		С	70	J11		71
A18	70	В	1	70	J23	В	72
A19	70	В	9	70	J25	Α	72
A24	70	C	28	70	M6	Α	71
A25	70	E7	С	70	M9	В	71
A26	26 70		D	70	R7		71
A32	72	E9	Е	70			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)	
1	22	Engine Room R/B (Engine Compartment Left)	

: Junction Block and Wire Harness Connector

	+					
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2D	20	Dook Wire and Coul Side I/D I I I / of Kiek Danel)				
2E	- 28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3D						
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3H						
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3M						
3N	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3P						
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4C						
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)				
4E						
4F						
5A	1					
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)				
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)				

: Connector Joining Wire Harness and Wire Harness

Code	See Page	loining Wire Harness and Wire Harness (Connector Location)				
IG1	70	Trains Dears No C. Wire and Deak Wire (Dekind the Combination Mater)				
IG5	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)				
IN2	80	ngine Wire and Dash Wire (Behind the Glove Box)				
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)				
lc2	84	Dash Wire and Dash Wire (Behind the Center Panel)				

Air Conditioning (Front)



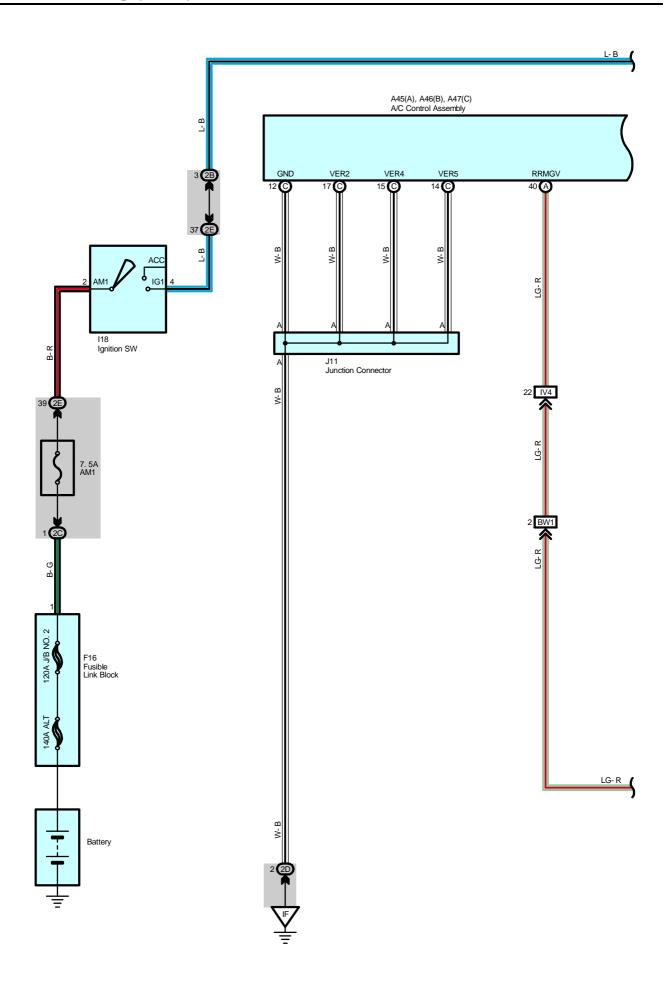
: Ground Points

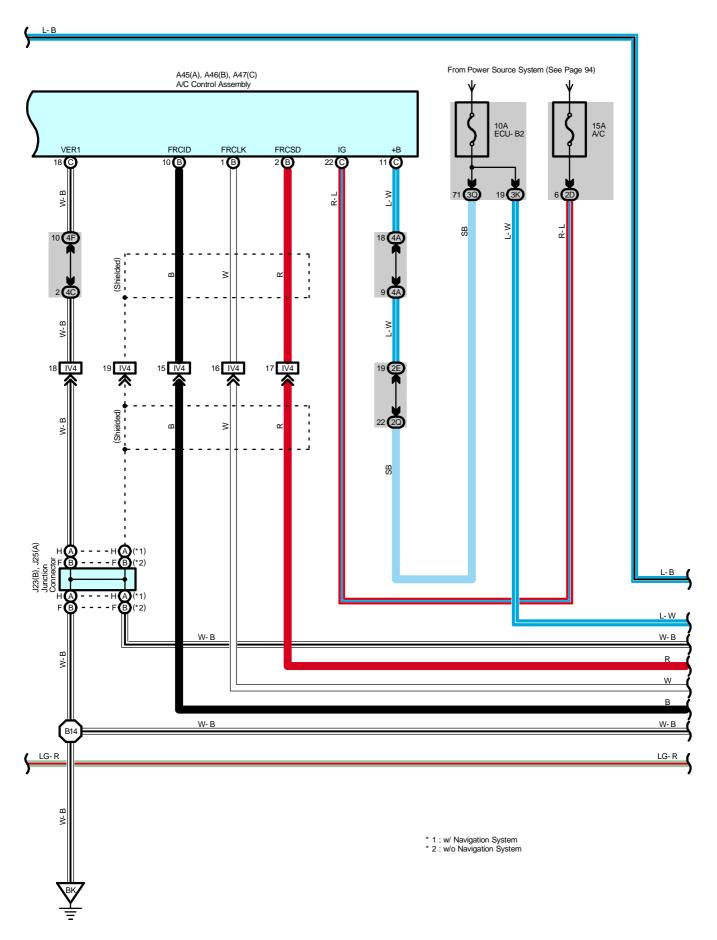
Code	See Page	Ground Points Location	
EA	76	Front Right Side of Fender Apron	
EC	76	Rear Bank of Right Cylinder Head	
IF	78	Set Bolt of Cowl Side J/B LH	
II	78	Set Bolt of Cowl Side J/B RH	
BK	86	Front Side Under the Front Passenger's Seat	

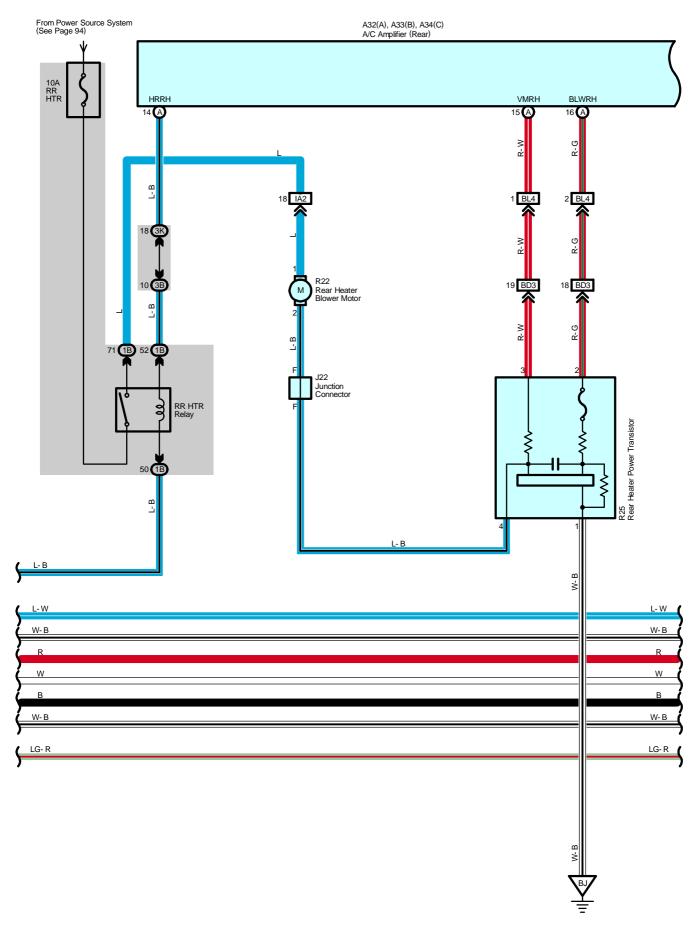


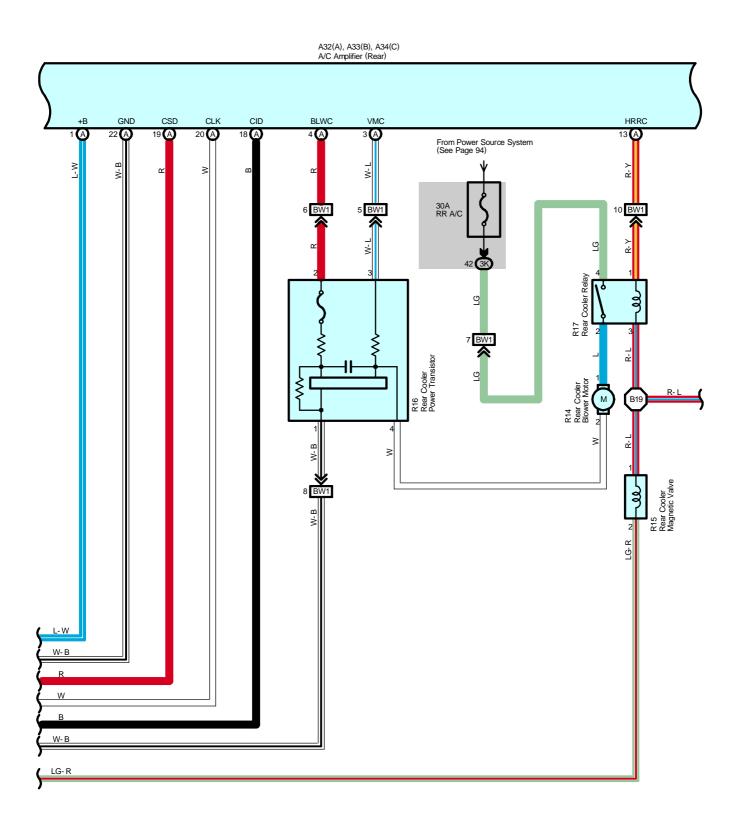
: Splice Points

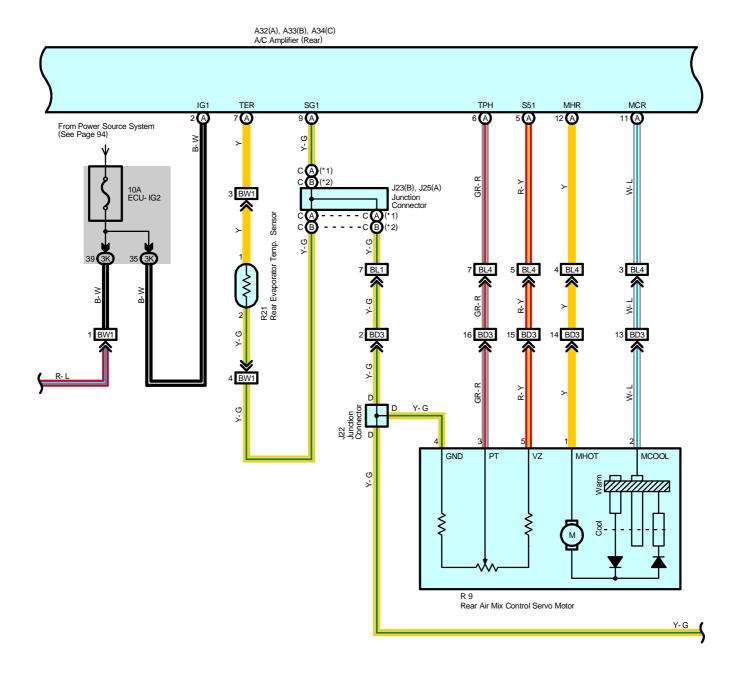
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E16	76	Engine Room No.2 Wire			



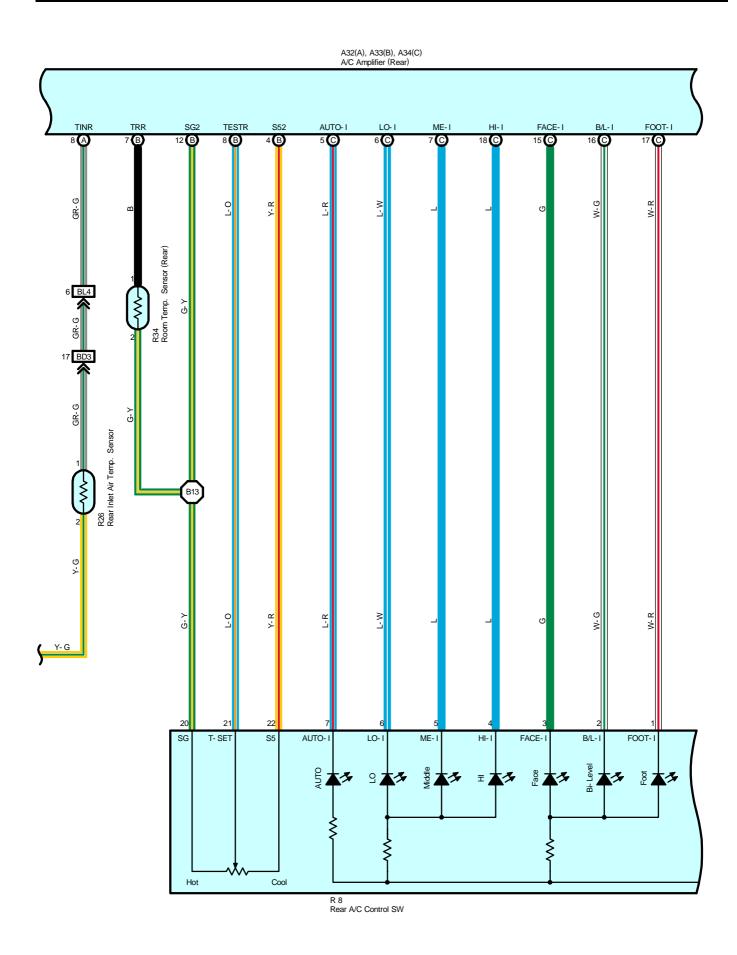


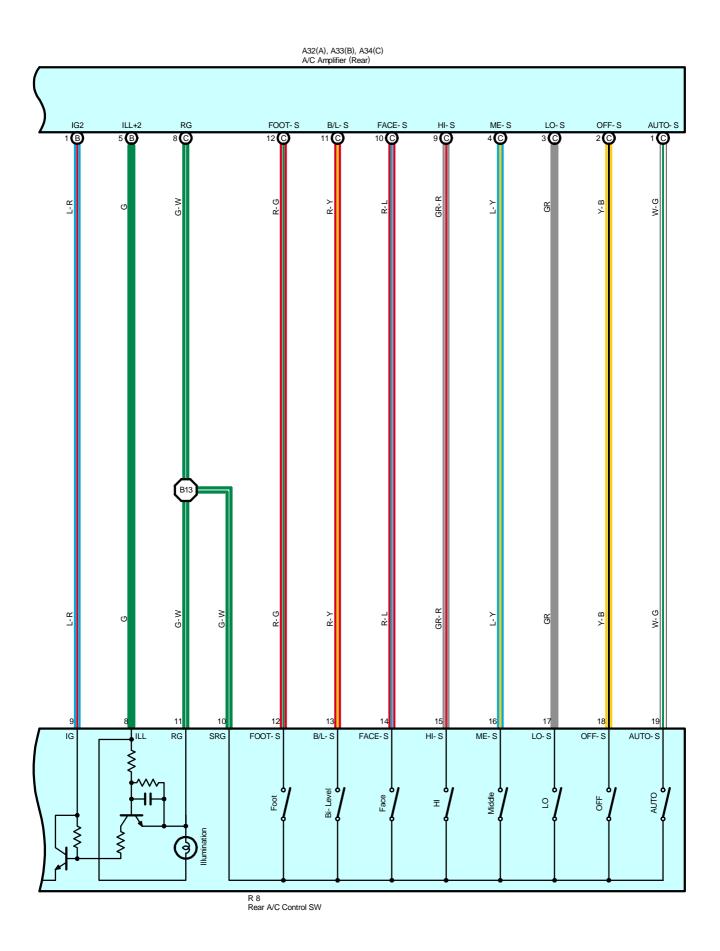






- * 1 : w/ Navigation System * 2 : w/o Navigation System





System Outline

1. Cooler and Heater Blower Operation

* Manual operation

When the blower control SW in the rear A/C control SW is set to any blower speed, a signal is sent to the A/C amplifier. The A/C amplifier controls the power transistor and operates the rear cooler blower motor and rear heater blower motor at the set speed.

* Auto operation

When the auto SW in the rear A/C control SW is operated, a signal is sent to the A/C amplifier. The A/C amplifier controls the power transistor according to the signals from respective sensors, and operates the rear cooler blower motor and rear heater blower motor.

2. Air Mix Control Servo Motor Control

When the temperature control lever in the rear A/C control SW is operated, a signal is sent to the A/C amplifier. The A/C amplifier controls the rear air mix control servo motor to operate the damper until it reaches the temperature set by the temperature control lever.

3. Air Conditioning Operation

The cooler and heater operation can be switched by the mode select SW in the rear A/C control SW.

Service Hints

A32 A/C Amplifier (Rear)

1-Ground: Always approx. 12 volts

2-Ground: Approx. 12 volts with ignition SW at ON or ST position

22-Ground: Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
A32	Α	72	J1	11	71	R16	73
A33	В	72	J2	22	72	R17	73
A34	С	72	J23	В	72	R21	73
A45	Α	70	J25	Α	72	R22	73
A46	В	70	R	.8	73	R25	73
A47	С	70	R	9	73	R26	73
F.	16	68	R14		73	R34	73
l18		70	R′	15	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	- 28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2C	20	Engine Room No.2 whe and Cown Side 3/B Lm (Left Rick Pariet)			
2D	00	Doob Wire and Coul Side I/P LH // oft Kick Panel)			
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A					
4C	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
4F	1				

Air Conditioning (Rear)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)			
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
BD3	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BL1	00	Floor No 2 Wire and Floor No 2 Wire / Dight Cide of Door Floor Crossmannhar)			
BL4	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BW1	88	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)			

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

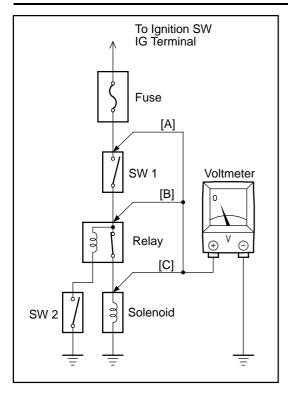
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B13	88	Roof No.2 Wire	B19	88	A/C Sub Wire
B14	88	Floor No.2 Wire			

2004 LAND CRUISER ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

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VSC	228
Wireless Door Lock Control	270

C TROUBLESHOOTING



VOLTAGE CHECK

(a) Establish conditions in which voltage is present at the check point.

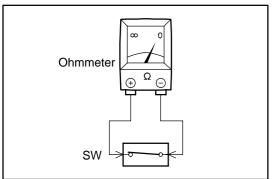
Example:

Ignition SW on

Ignition SW and SW 1 on Ignition SW, SW 1 and Relay on (SW 2 off)

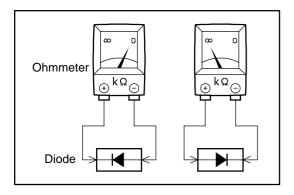
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.

This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

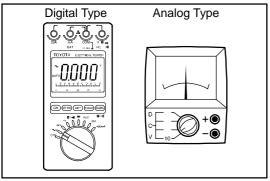
- (a) Disconnect the battery terminal or wire so there is no voltage between the check points.
- (b) Contact the two leads of an ohmmeter to each of the check points.



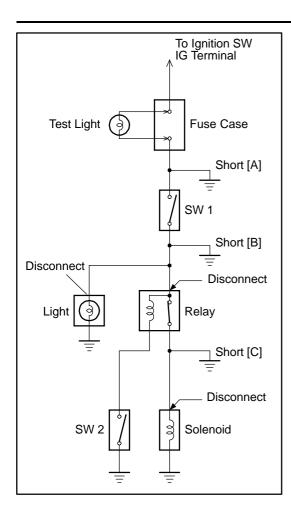
If the circuit has diodes, reverse the two leads and check again.

When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.

When contacting the two leads in reverse, there should be no continuity.



(c) Use a volt/ohmmeter with high impedance (10 k Ω /V minimum) for troubleshooting of the electrical circuit.



FINDING A SHORT CIRCUIT

- (a) Remove the blown fuse and disconnect all loads of the fuse.
- (b) Connect a test light in place of the fuse.
- (c) Establish conditions in which the test light comes on.

Example:

[A] - Ignition SW on

[B] [C]

Ignition SW and SW 1 on
Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)

(d) Disconnect and reconnect the connectors while watching the

The short lies between the connector where the test light stays lit and the connector where the light goes out.

(e) Find the exact location of the short by lightly shaking the problem wire along the body.

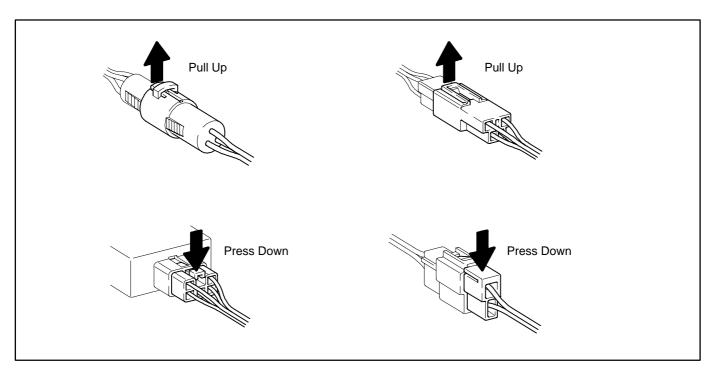
CAUTION:

- (a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)
- (b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

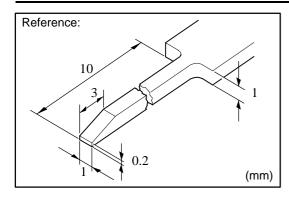
DISCONNECTION OF MALE AND FEMALE CONNECTORS

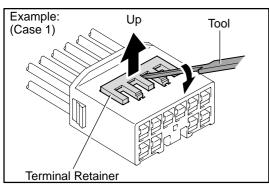
To pull apart the connectors, pull on the connector itself, not the wire harness.

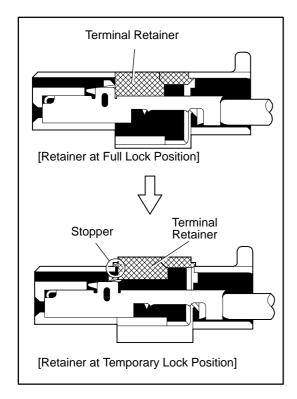
HINT: Check to see what kind of connector you are disconnecting before pulling apart.

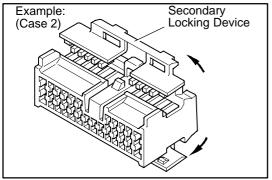


C TROUBLESHOOTING









HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

1. PREPARE THE SPECIAL TOOL

HINT: To remove the terminal from the connector, please construct and use the special tool or like object shown on the left.

- 2. DISCONNECT CONNECTOR
- 3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.
 - (a) Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.
 - (b) Use a special tool or the terminal pick to unlock the secondary locking device or terminal retainer.

NOTICE:

Do not remove the terminal retainer from connector body.

[A] For Non-Waterproof Type Connector

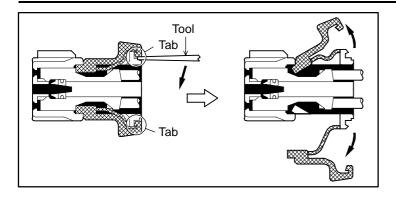
HINT: The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

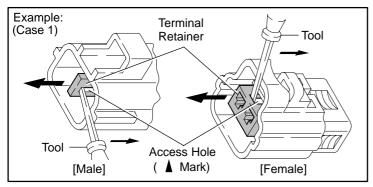
"Case 1"

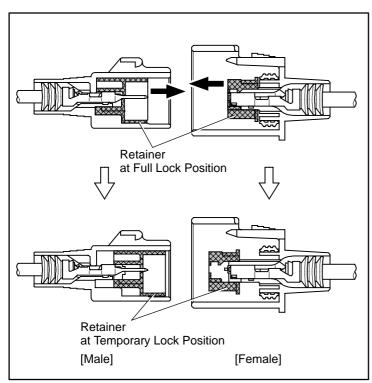
Raise the terminal retainer up to the temporary lock position.

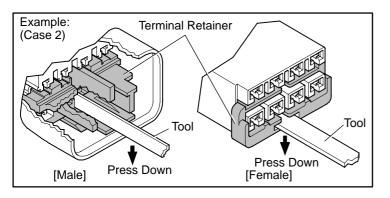
"Case 2"

Open the secondary locking device.









[B] For Waterproof Type Connector

HINT: Terminal retainer color is different according to connector body.

Example:

Terminal Retainer : Connector Body

Black or White : Gray
Black or White : Dark Gray
Gray or White : Black

"Case 1"

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).

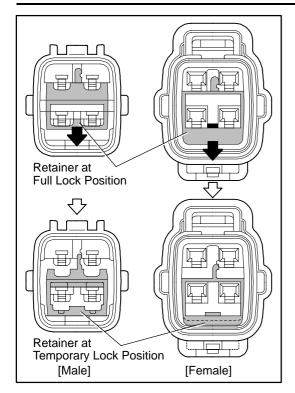
Insert the special tool into the terminal retainer access hole (Mark) and pull the terminal retainer up to the temporary lock position.

HINT: The needle insertion position varies according to the connector's shape (Number of terminals etc.), so check the position before inserting it.

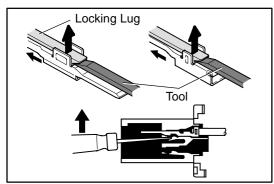
"Case 2"

Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.

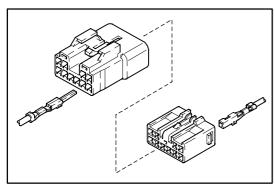
C TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



(c) Release the locking lug from terminal and pull the terminal out from rear.

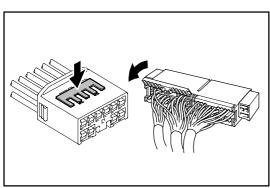


4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:

- Make sure the terminal is positioned correctly.
 Insert the terminal until the locking lug locks firmly.
 Insert the terminal with terminal retainer in the temporary lock position.



- (b) Push the secondary locking device or terminal retainer in to the full lock position.
- 5. CONNECT CONNECTOR